THE SOUTHWESTERN NATURALIST 46(4):417–524 DECEMBER 2001

INDEX TO VOLUMES 37 THROUGH 46

Troy L. Best

Department of Biological Sciences and
Alabama Agricultural Experiment Station,
331 Funchess Hall, Auburn University, Alabama 36849-5414

This index was constructed by listing each article alphabetically by title and by the last name of the first author. Titles beginning with general terms or phrases (e.g., a, an, the, observations on, notes on the) are listed by the next word in the title. Second and subsequent authors are listed with a reference to the first author. All taxa included in titles are listed, but family, genus, and species names are included each time they appear in the abstracts, text, tables, and figure legends. H. A. Thomas generously provided assistance in checking early drafts of this index.

Abbreviata, 40:111–114
ranae, 40:113
terrapenis, 40:331–333
Abedus, 38:159
Abeloe, Tiffany N., and Paul C. Hardy. Western screech-owls diurnally roosting in a cave, 42:349–351
Abeloe, Tiffany N., see Hardy, Paul C., —
Abert squirrel (*Sciurus aberti*) as a soil excavator, Sylvester Allred and William S. Gaud, 44:88–89
Abert squirrel herbivory on foliage and nitrogen losses in ponderosa pine, effects of, W. Sylvester Allred and William S. Gaud, 39:350–353
Abies, 41:214, 42:133, 42:446, 45:62, 46:191
concolor, 37:188, 38:277, 40:76–85, 43:243, 43:266, 44:122, 46:194–196, 46:198
guatemalensis, 45:239
lasiocarpa, 37:356, 38:176, 41:322, 43:204, 43:205, 43:208, 43:209–212, 44:444–456, 46:107, 46:286
religiosa, 37:92, 44:405
Abiotic factors affecting summer distribution and movement of male paddlefish, *Polyodon spathula*, in a prairie reservoir, Craig P. Paukert and William L. Fisher, 45:133–140
Abronia, 46:393
ameliae, 39:336
angustifolia, 39:336
carletonia, 39:336
deppei, 39:172
deppii, 41:360–364
fragrans, 39:336, 39:340
macrocarpa, 39:336–341, 42:367, 42:409–415
pogonantha, 39:340
umbellata, 39:340
Abundance and dispersion of shells of the white desertsnail, *Eremarionta immaculata* (Gastropoda: Pulmonata), William D. Wiesenborn, 45:450–455
Abundance and habitat associations of common poorwills in the Sonoran Desert, Paul C. Hardy, Tiffany N. Abeloe, Robert X. Barry, and Michael L. Morrison, 43:234–241
Abundance and habitat associations of elf owls and western screech-owls in the Sonoran Desert, Paul C. Hardy, Michael L. Morrison, and Robert X. Barry, 44:311–323
Abundance and seasonal variation of western sandpipers (*Calidris mauri*) in Baja California Sur, Mexico, Guillermo Fernández, Roberto Carmona, and Horacio de la Cueva, 43:57–61
Abundance of desert tortoises on the Nevada Test Site, relative, Kurt R. Rautenstrauch and Thomas P. O'Farrell, 43:407–411
Abutilon, 38:241
hypoleucum, 43:276
Acacia, 37:376, 37:408–414, 38:77, 40:30, 41:187, 41:436, 42:34, 42:186, 42:203–205, 42:207, 42:208, 42:324, 42:370, 42:444, 43:335, 44:58, 44:343, 44:345, 46:191, 46:279
amentacea, 37:114
angustissima, 44:458, 45:424, 45:425, 45:427
berlandieri, 42:35, 43:42, 43:195–203, 44:535
chiapensis, 37:410
cochliacantha, 37:114, 37:409, 37:410, 37:412–414, 38:193, 45:304
collinsii, 37:409–414
constricta, 37:114, 41:425, 43:29, 43:38, 46:274, 46:333
cornigera, 37:114, 37:410, 37:412, 37:414, 43:276, 45:302
cornygira, 45:132
farnesiana, 37:114, 39:115, 40:379, 43:42–44, 43:276, 43:277, 44:112, 45:472
gladiata, 37:414
globulifera, 37:410
greggii, 39:306, 43:450
greggii, 38:151, 38:201, 38:206, 38:346, 38:385, 38:386, 42:201, 42:202, 42:206, 42:224, 43:200, 43:234, 43:267, 43:426, 43:450, 44:312, 46:382
gregii, 37:213, 40:355, 41:229
hindsii, 37:409–414
hirtipes, 37:412
macracantha, 37:410, 37:411, 37:413
minuata, 45:438, 45:439, 45:441
minuta, 44:536
neovernicosa, 43:54, 46:401
pennatula, 37:409–412, 37:414
rigidula, 43:42–44, 43:195–203, 43:276, 43:277, 44:535, 45:472
roemeriana, 42:183
schaffneri, 43:42–44
smallii, 39:114–121, 40:379–387, 41:220, 42:183, 43:199
sphaerocephala, 37:410
standleyi, 37:412, 37:414
subangulata, 43:39
tortuosa, 37:114
vernicosa, 41:427
Acaena elongata, 37:92
Acalypha
californica, 46:4
lindheimeri, 42:444
Acalypta cooleyi, 46:208, 46:209
Acanaloniidae, 46:241
Acanthaceae, 43:74, 43:276
Acanthocephala, 37:109, 42:232–236
Acanthocyclops, 43:256
brevispinosus, 43:257

exilis, 43:258, 43:261
robustus, 43:257, 43:258, 43:261
smithae, 43:258, 43:261
vernalis, 43:257, 43:258, 43:261
Acanthodactylus boskianus, 46:406
Acanthomola, 38:268
Acanthopelma annae, 44:519, 44:520
Acarina, 37:426
Accipiter
cooperi, 40:355
cooperii, 42:225
gentilis, 41:355–358
striatus, 41:356
Accipitridae, 38:61, 42:225
Acentrella, 38:256, 44:24
ampla, 38:258
carolina, 38:254, 39:60, 39:61
insignificans, 38:254
turbida, 38:254, 44:23
Acer, 44:341, 45:174, 46:191, 46:194, 46:196
glabrum, 43:243
grandidentatum, 44:342, 46:195, 46:198, 46:199
macrophyllum, 38:290
negundo, 37:356, 40:122, 40:135, 40:138, 42:356, 44:226, 44:428, 44:429, 44:431, 45:8, 45:9, 45:46, 45:402, 45:403, 45:408, 46:195
nigrum, 44:427
rubrum, 44:242, 45:403–405
saccharinum, 38:404, 44:429, 45:402, 45:403
saccharum, 44:427, 45:386, 45:400, 45:401, 45:404
Acerpenna, 38:252
akataleptos, 38:255
macdunnoughi, 38:255
pygmaea, 38:254, 38:255, 38:269, 38:270, 39:60
Acetabularia crenulata, 41:420
Acevedo, Manuel E., see Smith, Eric N., and —
Achaearacea, 42:498, 42:499
Achatocarpus nigricans, 43:276
Achilla lanulosa, 45:67
Achillea lanulosa, 43:210
Achiridae, 44:169
Achnanthaceae, 37:150
Achnanthes
affinis, 37:148–150, 37:152–154
clevei, 37:150
flexella, 37:150
lanceolata, 37:150
linearis, 37:150
microcephala, 37:150
minutissima, 37:150, 37:154
Achras zapota, 43:229
Acinetobacter calcoaceticus, 38:74, 38:75
Acinonyx jubatus, 40:226, 45:261
Acipenser, 38:218, 38:221
medirostris, 38:220
transmontanus, 38:220
Acipenseridae, 42:282
Acleisanthes longifolia, 39:340
Acmaeodera, 37:115
cuneata, 37:107, 37:111
Acoelorhaphe wrightii, 45:80
Aconitum columbianum, 43:214
Acrididae, 37:109, 37:362–371, 39:21–25, 39:92, 40:162, 40:344, 46:207, 46:209, 46:241
Acris crepitans, 42:214, 43:8
Acrolophitus variegatus, 43:296–298
Acroneuria, 42:500
Acrostichum danaeifolium, 45:80
Actenophthalmus
fraternal, 46:95
multidentaculata, 46:95
Actinoaias ligamentina, 41:326, 41:327
Actinomyces, 38:33
Actinomycetales, 38:32
Actitis macularia, 37:87, 37:388, 37:397, 40:99
Actual and estimated protein and lipid content of cinnamon teal migrating through New Mexico, Terri D. Thorn and Phillip J. Zwank, 40:229–231
Aculeate wasps in Texas and adjacent states (Hymenoptera: Sphecidae, Pompilidae, Mutillidae), new distribution records of, Allan W. Hook, 43:249–255
Adams, Rick A., and Katherine M. Thibault, Records of the Brazilian free-tailed bat, *Tadarida brasiliensis* (Chiroptera: Molossidae), in Colorado, 44:542–543
Adelophis copei, 39:172
Adelpha bredowii, 44:378
Adenostema fasciculatum, 38:374
Adenostoma, 41:187
fasciculatum, 38:65, 39:130, 39:134, 42:2, 45:124–126, 45:509
fasculatum, 39:166
fasiculatum, 38:290
Adolph, Stephen C., and Monica A. Geber, Mate-guarding, mating success and body size in the tropical millipede *Nyssodesmus python* (Peters) (Polydesmida: Platyrhacidae), 40:56–61
Aechmophorus occidentalis, 38:61
Aeolosoma, 44:516
Aeolus livens, 45:464
Aerial and ground survey techniques to determine beaver colony densities in Kansas, comparison of, Robert J. Robel and Lloyd B. Fox, 38:357–361
Aeromonas hydrophilus, 37:426
Aeronautes saxatalis, 40:99, 40:357
Aesculus glabra, 45:401, 45:404
Aeshnidae, 37:170
Aetheca wagneri, 46:94, 46:95
Afton, Alan D., see Peters, Michael S., and —
Agabus, 42:261
Agalinis maritima, 45:434, 45:435, 45:442
Agalis milberti, 44:376–378
Agapostemon, 40:429, 42:89
Agavaceae, 41:465–469, 42:182, 42:186, 44:507, 45:441
Agave, 38:78, 39:177, 39:178, 41:429, 41:465–469, 43:27, 46:2, 46:195, 46:245
angustifolia, 41:465–468
cerulata, 46:5
deserti, 39:365, 41:320
fourcroydes, 41:465–468
lecheguilla, 37:275, 37:278, 38:77, 40:355, 43:197, 43:200
lechugilla, 37:387
lechuguilla, 41:425, 44:491, 45:339, 46:246
macroacantha, 41:465
murpheyi, 41:465–469
palmeri, 39:176
schottii, 44:142
striata, 41:425, 43:39
vilmoriniana, 41:465–468
Age and growth of Nelson's trout, Oncorhynchus mykiss nelsoni, from Arroyo San Rafael, Sierra San Pedro Martir, Baja California, Mexico, Gorgonio Ruiz-Campos, Edwin P. Pister, and Guillermo A. Compean-Jimenez, 42:74–85
Age prediction based on stem size for riparian cottonwood stands, Virginia H. Hinchman and Karl W. Birkeland, 40:406–409
Age structure, survival, and mortality of mountain lions in southeastern Arizona, Stanley C. Cunningham, Warren B. Ballard, and Heather A. Whitlaw, 46:76–80
Agelaius phoeniceus, 37:358, 37:392, 37:399, 37:400, 38:63, 42:141, 42:227, 43:456, 44:486
Agelenidae, 45:462, 46:209
Agelenopsis
longistyla, 46:209
spatula, 46:209
Ageneotettix deorum, 39:22
Ageniella
arizonica, 43:253
cupida, 43:253
faceta, 43:253
Agkistrodon
bilineatus, 39:173, 44:478–483
contortrix, 42:330, 43:11, 43:499–500
piscivorus, 42:233, 43:13, 43:14, 43:16, 43:17, 43:19, 44:532
Aglaodiaptomus clavipes, 43:258, 43:261
Agonum
koepkei, 37:106
longicolle, 37:106, 37:113
Agosia chrysogaster, 39:228, 39:233, 43:81, 46:307

Agrawal, Anurag A., Jennifer A. Rudgers, Louis W. Botsford, David Cutler, Jessica B. Gorin, Carolyn J. Lundquist, Brian W. Spitzer, and Alisa L. Swann, Benefits and constraints on plant defense against herbivores: spines influence the legitimate and illegitimate flower visitors of yellow star thistle, *Centaurea solstitialis* L. (Asteraceae), 45:1–5
Agriolimax hemphilli, 38:297
Agrionidae, 37:170, 37:173, 37:176
Agropyron
cristatum, 40:288, 41:49
desertorum, 46:285
smithii, 39:53, 40:137, 41:33, 44:425, 44:435, 45:47, 46:285
Agrostis, 44:1
stolonifera, 40:137
Aguila chrysaetos, 44:486
Aguilar Zúñiga, Claudia, see Morrone, Juan J., —
Aguilegia, 44:341
Aguilera, C., R. Mendoza, J. Montemayor, and G. Hernandez, Eggs, larvae, and early juveniles of *Ethcostoma grahami* (Teleostei: Percidae), 44:214–218
Aguirre, Alonso, see Treviño-Villarreal, Julián, —
Aguirre, Juan Luis, see Peinado, Manual, —
Aguirre-Rivera, Juan Rogelio, see Martínez-Delgado, Ezequiel, —
Ahlm, Lief A., see Ryden, Dale W., and —
Aigner, Paul A., Michael L. Morrison, Linnea S. Hall, and William M. Block, Great horned owl food habits at Mono Lake, California, 39: 286–288
Aimophila
aestivalis, 40:62–67
botterii, 37:73, 39:22
cassini, 37:389, 40:357
cassinii, 37:73, 39:22, 42:227, 44:486
ruficeps, 38:46, 40:358
Aix sponsa, 37:400, 41:444, 42:225
Aizoaceae, 41:435, 45:441
Akodon
budini, 44:329
fumeus, 44:328, 44:329
Alaephus macilentus, 45:309
Alaniz, Mario A., see Everitt, James H., —
Alaniz, Mario A., see Lonard, Robert I., —
Alaria, 46:223–225, 46:227–229
mustelae, 40:114
Alaudidae, 42:226
Albert, Steven K., and Paul R. Krausman, Desert mule deer and forage resources in Southwest Arizona, 38:198–205
Albiorix
anophthalmus, 44:138–147
bolivari, 44:138
edentatus, 44:141
magnus, 44:140
mexicanus, 44:141
mirabilis, 44:138
parvidentatus, 44:141
reddelli, 44:138
retrodentatus, 44:141
Alcaligenes fecalis, 38:32–34
Alcaraz, Francisco, see Peinado, Manual, —
Alcaraz, Guillermina, Gerardo Pérez-Ponce de León, Luis Garcia P., Virginia León-Règagnon, and Cecilia Vanegas, Respiratory responses of grass carp, *Ctenopharyngodon idella* (Cyprinidae) to parasitic infection by *Centrocestus formosanus* (Digenea), 44:222–226
Alcedinidae, 38:62, 42:226
Algansea popoche, 39:109
Allenrolfea occidentalis, 40:400, 43:426
Allenrolfeetum occidentalis, 40:394, 40: 395, 40:402, 40:403
Allert, Ann, see Wilkinson, Chris, —
Alligator juniper (*Juniperus deppeana*, Pinaceae) to historic environmental variability in south central New Mexico, response of, Richard A. Earl and Dallas L. Bash, 41:227–238
Alligator mississipiensis, 42:175
Alliona incarnata, 41:427
Allium
drummondii, 45:105
mutabile, 37:368, 37:369
Allocosa, 45:462
Allocreadium mexicanum, 41:289
Alloglossidium corti, 44:523, 44:525
Alloglossoides caridicola, 45:69–71
Alloperla, 42:500
Alloporus uncinatus, 40:59, 40:60
Allossostoma parvus, 40:114
Allozymic and morphologic variation among *Dipodomys insularis*, *Dipodomys nitratoides*, and two populations of *Dipodomys merriami* (Rodentia: Heteromyidae), Troy L. Best and Laura L. Janecek, 37:1–8
Allozymic variation and biogeography of snapping shrimp (*Alpheus*) from the Gulf of Mexico and northwestern Atlantic coasts, Matthew R. McClure and Ira F. Greenbaum, 44:462–469
Allred, Sylvester, and Gilbert Pogany, Early estrus in a female Abert Squirrel (*Sciurus aberti aberti*), 41: 90–91
Allred, Sylvester, and William S. Gaud, Abert squirrel (*Sciurus aberti*) as a soil excavator, 44:88–89
Allred, W. Sylvester, and William S. Gaud, Characteristics of ponderosa pines and Abert squirrel herbivory, 39:89–90
Allred, W. Sylvester, and William S. Gaud, Effects of Abert squirrel herbivory on foliage and nitrogen losses in ponderosa pine, 39:350–353
Allred, W. Sylvester, Black-bellied form of an Abert squirrel (*Sciurus aberti aberti*) from the San Francisco Peaks area, Arizona, 40:420
Alnus, 40:107, 40:238, 42:156, 44:149
incana, 43:208, 43:214
jorullensis, 40:122
maritima, 45:388, 45:390, 45:410
oblongifolia, 44:226, 45:8, 45:9
rhombifolia, 38:290
serrulata, 45:402, 45:405, 45:410
sinuata, 43:213
tenuifolia, 46:195
Alocobisium, 41:148
Aloina bifrons, 45:228
Alona, 40:322
circumfimbriata, 40:323
karau, 40:323
Alopecia associated with postjuvenile molt in a wild population of *Peromyscus maniculatus*, John A. Sinclair, Robert L. Lochmiller, Charles W. Qualls, Jr., and Connie C. Cummings, 43:405–407
Alopecosa, 45:462
Alopex lagopus, 42:461, 42:463, 42:464, 43:476, 44:85, 44:372
Alophia drummondii, 45:232
Alosa pseudoharengus, 42:282, 42:285
Alouatta palliata, 45:332–333
Aloysia
gratissima, 43:197, 43:200, 43:275–277, 44:535, 45:31, 45:472, 46:250, 46:401
wrightii, 46:401
Alpheidae, 39:63–66
Alpheus, 39:63–66, 44:462–469
angulatus, 44:462–468
estuariensis, 39:63, 39:65, 44:462, 44: 463
heterochaelis, 39:63, 39:65, 44:462–468
Altenbach, J. Scott, see Hoyt, Reginald A., —
Altica, 37:108
Altriplex
canescens, 43:408
confertifolia, 43:408
Aluminum foil balls to determine home ranges of woodrats, use of, Scott E. Henke and Steven A. Smith, 45:352–355
Alvarado, Javier, Laura Ibarra, Ireri Suazo, Gerardo Rodríguez, and

Rasalba Zamora, Reproductive characteristics of a green iguana (*Iguana iguana*) population on the west coast of Mexico, 40:234–237
Alvarez, Julio, see Peinado, Manual, —
Alvarez R., Carlos J., see Sánchez H., Cornelio, —
Alvarez-Cárdenas, Sergio, Alfredo Ortega-Rubio, Patricia Galina-Tessaro, and Fernando Vega-Villasante, Observations on behavior of the lizard *Uta stansburiana* during a total solar eclipse, 42:108–112
Álvarez-Castañeda, Sergio T., see Cervantes, Fernando A., —
Alvarez-Castañeda, Sergio Ticul, and Patricia Cortés-Calva, Anthropogenic extinction of the endemic deer mouse, *Peromyscus maniculatus cinereitus*, on San Roque Island, Baja California Sur, México, 41: 459–461
Alvarez-Castañeda, Sergio Ticul, Current status of the rice rat, *Oryzomys couesi peninsularis*, 39:99–100
Alvarez-Castañeda, Sergio Ticul, Evelyn Rios, and Anahid Gutierrez-Ramos, Noteworthy records of the little pocket mouse (Heteromyidae: *Perognathus longimembris*) on the Baja California Peninsula, 46:243–245
Alvarez-Castañeda, Sergio Ticul, Notas sobre un parto anormal en *Anoura geoffroyi* (Chiroptera: Mammalia), 37:420–421
Alytes muletensis, 46:110
Amalanchier utahensis, 44:502
Amara
carinata, 45:463
chalcea, 37:105, 37:106
ellipsis, 46:209
idahoana, 46:209
littoralis, 45:463
Amaradix
bitterrootensis, 46:95
euphorbi, 46:95
Amaranthaceae, 41:207, 41:209, 41: 214, 41:215, 45:441, 46:6, 46:240
Amaranthus, 45:47, 46:5, 46:240
alba, 38:226, 38:232
greggii, 45:433, 45:441
pubescens, 39:344
Amaryllis, 44:90, 44:92
Amauria rotundifolia, 46:5
Amazilia
candida, 43:231
tzacatl, 43:231
Amblema plicata, 41:326, 41:327, 42:333, 42:334, 43:321–332
Ambloplites rupestris, 39:228, 39:233, 42: 283
Amblycercus holosericeus, 43:232
Amblycheila cylindriformis, 46:209
Amblyopappa pusilli, 40:394, 40:402, 40: 403
Amblyopappus pusillus, 40:400, 40:402
Amblyopsis rosae, 40:308–313
Amblystegium
americanum, 45:228
juratzkanum, 45:228
riparium, 40:431
serpens, 45:228
Amblytropidia mystera, 37:364
Ambrosia, 41:187, 46:6, 46:240, 46:339
ambrosioides, 46:82, 46:355
ambrosoides, 46:245
artemisiifolia, 38:225, 44:407
artemisiifolia, 40:137, 41:404, 42:66, 42:215, 45:407, 45:411, 45:414–416
bidentata, 37:369, 39:197
confertiflora, 43:408
deltoidae, 39:270
deltoidea, 38:198, 38:208, 41:315, 42: 240, 44:544, 46:274, 46:279
dumosa, 38:208, 38:212–215, 39:365, 42:328, 43:48, 43:234, 43:391, 43: 408, 44:312, 45:226, 45:451, 46:5
grayi, 44:437–439
grayii, 45:414
psilostachya, 39:96, 40:137, 41:54, 41: 403, 42:66, 42:253, 42:254, 44:435, 45:47, 45:414, 45:419, 45:434, 45: 435, 45:437, 45:441, 46:296
trifida, 41:54, 41:404, 45:47, 45:417, 45:419, 45:420
Ambrysus, 41:2, 41:20, 44:25
abortus, 41:12
amargosus, 41:12
barberi, 41:13
buenoi, 41:3–8, 41:14, 41:22, 41:24
circumcinctus, 41:1, 41:3–8, 41:10, 41: 15, 41:17–19, 41:22–24
hungerfordi, 41:12
lunatus, 41:3, 41:7, 41:8, 41:10, 41:11, 41:15, 41:22–24
mormon, 41:1, 41:3, 41:7, 41:10, 41:11, 41:22
parvicerps, 41:12
pudicus, 41:3, 41:7, 41:11, 41:12, 41: 22
pulchellus, 41:3, 41:7, 41:13, 41:14, 41: 22, 41:23
punctricollis, 41:3, 41:5, 41:7, 41:14, 41: 15, 41:22, 41:23
pygmaeus, 41:7
thermarum, 41:22
woodburyi, 41:22
Amblylomma, 42:332
Amblystoma, 37:56–58, 37:61, 37:62
annulatum, 37:425–426, 40:327–330
jeffersonianum, 40:431, 40:432
laterale, 40:329
maculatum, 40:329
opacum, 40:328, 40:329, 41:62, 41:63
talpoideum, 40:329, 41:62–64
texanum, 40:328–330, 43:7
tigrinum, 38:316–324, 39:56, 40:329, 40:431, 40:432, 43:7, 46:173, 46: 174
tremblayi, 40:329
Ambystomatidae, 37:425–426, 40:327–330, 41:62–64, 43:7
Amegabothris abantis, 46:95
Ameiridae, 43:259
Ameiurus, 45:271
melas, 39:226, 39:233, 42:268, 42:273, 42:282, 43:119, 44:392–394, 45: 278, 45:280, 45:282, 45:285, 46: 316, 46:319
natalis, 42:282, 45:279
nebulosus, 39:226, 39:233
Ameiva undulata, 39:173, 44:480
Amelanchier, 45:39
arborea, 45:401, 45:405
Ameletidae, 38:253, 39:251
Ameletus, 39:251
aequivocus, 38:253, 38:254
celer, 38:253, 38:254
cooki, 38:254
falsus, 38:253
similior, 38:254
sparsatus, 38:254
subnotatus, 38:253, 38:254
validus, 38:254
velox, 38:254
Amerceenis, 38:269
American beaver, *Castor canadensis*, in Louisiana, range extension of the, Ruth M. Elsey and Noel Kinler, 41: 91–93
American mastodont (*Mammut americanum*) in New Mexico, the, Spencer G. Lucas and Gary S. Morgan, 42:312–317
Ametropodidae, 38:259
Ametropus albrighti, 38:259
Amidostomum, 39:205
Amierus
melas, 37:142
natalis, 37:142
Amiidae, 40:316
Ammania coccinea, 45:415, 45:417, 45: 418
Ammerman, Loren K., see Higginbotham, Jana L., —
Ammodramus savannarum, 37:73, 37: 399, 37:400, 39:198, 42:451, 43: 456, 44:486, 44:487
Ammospermophilus, 38:164
harrisi, 37:254
insularis, 41:188
leucurus, 40:284
nelsoni, 39:91, 40:344, 41:132, 46:66, 46:67
Ammotragus lervia, 40:147, 42:186, 43: 163, 46:118
Ammotrechula peninsulana, 45:445–448
Amorpha
canescens, 44:433, 44:434, 45:47, 45: 411, 45:412
fruticosa, 40:137, 42:138, 44:430, 44:

439, 45:388, 45:390, 45:402, 45:403, 45:408, 45:410, 45:411, 45:417
Ampelopsis, 39:339
arborea, 45:408
cordata, 45:403, 45:404, 45:409, 45:410
Amphalius runatus, 46:95
Amphiachyris dracunculoides, 40:271, 45:411, 45:412, 45:416, 45:419
Amphibia, 43:88–91
Amphibolurus, 43:391
Amphispiza
belli, 37:401
bilineata, 37:254, 37:389, 37:390, 38:46, 40:358, 42:227, 43:158
Amphistichus rhodoterus, 38:221
Amphora
acutiuscula, 46:203
coffeiformis, 37:150, 46:203
commutata, 46:203
copulata, 46:203
ovalis, 37:150, 46:203
perpusilla, 37:150
veneta, 46:203
Ampullariidae, 37:194
Amsinckia
calycina, 42:378
grandiflora, 42:378
menziesii, 42:359, 42:360
tessellata, 43:48
Amyema, 42:201
Amyris
madrensis, 43:42, 43:43, 43:276, 43:277
texana, 43:42, 43:276, 43:277
Anacampsis innocuella, 42:155–161
Anachardiaceae, 44:508
Anacolia menziesii, 45:228
Anagapetus debilis, 39:252
Analetrididae, 38:268
Analetris, 38:268
Anas
acuta, 37:396, 38:61, 38:63, 38:155, 38:169, 38:180, 40:229, 41:333, 41:444, 41:445, 42:225, 42:454, 43:219, 43:221
americana, 37:396, 37:400, 38:179–181, 41:445, 43:222, 45:235
clypeata, 37:396, 38:169, 41:444, 42:225, 42:454–459, 43:222
crecca, 37:358, 37:396, 37:400, 38:61, 38:155, 38:169, 41:331–334, 41:445, 43:222
cyanoptera, 37:396, 37:400, 38:61, 38:169, 40:229–231, 43:221
diazi, 42:225, 42:228
discors, 37:400, 38:61, 39:205, 40:95, 40:231, 43:222
fulvigula, 40:325–327, 41:444–445
platyrhynchos, 37:357, 37:358, 37:396, 37:400, 38:61, 38:155–156, 38:179–181, 39:143–147, 39:203–205, 41:197, 41:331–334, 41:444, 41:445, 42:225, 42:454, 43:221
platyrhyncos, 37:290–291
smithi, 41:444
strepera, 37:358, 37:396, 41:444, 42:457, 43:221
undulata, 41:444
Anaspis, 45:464
Anatidae, 37:268–273, 38:61, 38:179, 39:190, 41:195, 42:225
Anchoa
cubana, 39:266
hepsetus, 39:266
mitchilli, 37:16, 39:263–268
parva, 44:168
Ancistrocactus tobuschii, 42:367
Ancistrocactus tobuschii, 40:428–430, 42:441–445
Ancylostoma, 43:477
Andelt, William F., and Thomas D. I. Beck, Effect of black-footed ferret odors on behavior and reproduction of prairie dogs, 43:344–351
Andelt, William F., see Hein, Eric W., and —
Andersen, Douglas C., Are cicadas (*Diceroprocta apache*) both a "keystone" and a "critical-link" species in lower Colorado River riparian communities?, 39:26–33
Andersen, Douglas C., see Nelson, S. Mark, and —
Anderson, Allison A., and Dean A. Hendrickson, Geographic variation in morphology of spikedace, *Meda fulgida*, in Arizona and New Mexico, 39:148–155
Anderson, Allison A., Clark Hubbs, Kirk O. Winemiller, and Robert J. Edwards, Texas freshwater fish assemblages following three decades of environmental change, 40:314–321
Anderson, David L., see McCarthy, Timothy J., —
Anderson, James T., Thomas C. Tacha, and George T. Muehl, Use of wetland and deepwater habitat by wintering sandhill cranes in coastal Texas, 45:76–79
Anderson, Robert S., see MacKay, William P., and —
Anderson, Stanley H., see Wilson, Erika C., —
Andinomys edax, 44:329
Andrachne phyllanthoides, 45:410
Andrenidae, 45:465
Andropogon, 37:213, 38:151, 42:387, 42:391, 44:7, 46:240, 46:379
gerardi, 45:217
gerardii, 37:369, 38:325–330, 39:197, 40:137, 44:429–436, 45:47, 45:222, 45:233, 45:387, 45:402, 45:405, 45:407, 45:411–413, 45:417, 46:178, 46:296, 46:339
glomeratus, 45:434, 45:435, 45:437, 45:442
hallii, 40:129, 40:137, 44:431, 44:432, 44:434, 45:409, 45:412
scoparium, 41:54
scoparius, 40:137, 44:407, 44:425, 46:339
ternarius, 44:435
virginicus, 38:275, 41:54, 45:407, 45:410, 45:412, 46:339
Andrya, 38:147
Anemone heterophylla, 40:429, 45:105
Anemopsis californica, 44:279, 44:281
Anepeorus rusticans, 38:268
Anguidae, 41:359–364, 43:9, 46:391–396
Anguilla rostrata, 37:146, 43:341, 44:168, 44:170, 44:171
Anguillidae, 40:316, 44:168
Anhinga anhinga, 43:497
Anisacanthus thurberi, 46:195
Aniulus bollmani, 40:60
Ankney, C. Davison, see Hohman, William L., —
Ankylocythere sinuosa, 38:391
Annelidae, 44:514–518
Annonaceae, 44:507
Anobiidae, 45:463
Anodonta, 43:329
grandis, 41:326
imbecillis, 41:326
Anolis, 40:116, 41:359, 41:360, 41:363, 44:69
carolinensis, 38:179, 42:233
limifrons, 44:68
richardi, 37:349
Anomiopsyllus
martini, 46:95
novomexicanensis, 46:95
nudatus, 46:95
Anomoeoneis
costata, 46:203
sphaerophora, 46:203
vitrea, 37:150
Anomopoda, 40:322–324
Anomotaenia ciliata, 39:205
Anopheles, 42:261
Anostraca, 38:85–86, 38:389–390, 39:206–207, 42:259–264, 44:212–213, 45:111–117
Anoura geoffroyi, 37:420–421, 44:113, 44:114, 46:358–362
Anoura geoffroyi (Chiroptera: Mammalia), notas sobre un parto anormal en, Sergio Ticul Alvarez-Castañeda, 37:420–421
Anser
albifrons, 38:169, 40:68–75, 42:68
caerulescens, 40:229
Ansley, R. J., see Kramp, B. A., —
Ant communities in flooded and unflooded riparian forest of the middle Rio Grande, Elizabeth Remington Milford, 44:278–286

Ant genus *Smithistruma* (Hymenoptera: Formicidae) in the southern United States, new distributional records for the, William P. MacKay and Robert S. Anderson, 38:388–389
Ant records for Taylor Co., Texas, new, Rafael Jusino-Atresino and Sherman A. Phillips, Jr., 37:430–433
Ant-acacia hybrids of Mexico and Central America, John E. Ebinger and David S. Seigler, 37:408–414
Ant-aphid interaction on the reproductive fitness of *Paullinia fuscecens* (Sapindaceae), effect of an, Victor Rico-Gray and Gerardo Castro, 41: 434–440
Antelope cervicapra, 46:118
Antennaria
parlinii, 45:400, 45:401, 45:405–407
parvifolia, 46:286
plantaginifolia, 37:369
Anthicidae, 46:209
Anthicus
formicarius, 46:209
plectrinus, 46:209
Anthomyidae, 38:170
Anthonomus grandis, 42:130
Anthropogenic ecological factors potentially affecting gray foxes (*Urocyon cinereoargenteus*) in a rural residential area, a survey of, Robert L. Harrison, 38:352–356
Anthropogenic extinction of the endemic deer mouse, *Peromyscus maniculatus cineritius*, on San Roque Island, Baja California Sur. México, Sergio Ticul Alvarez-Castañeda and Patricia Cortés-Calva, 41:459–461
Anthus
rubescens, 37:399, 37:400, 40:94, 40:95
spinoleta, 40:357, 42:227
spinoletta, 38:62
spragueii, 37:386, 37:389, 40:357, 42: 227
Anticlea elegans, 43:210
Antilocapra americana, 39:209, 39:305–306, 40:38–41, 40:344, 42:25–32, 43:156, 43:163–169, 43:415, 44:98, 46:332
Antilope cervicapra, 45:473
Anting by a scissor-tailed flycatcher, Michael S. Husak and Jerry F. Husak, 42:351–352
Antocha, 44:24
Antrozous pallidus, 38:111, 38:115–117, 41:261, 43:54, 44:345, 44:398, 44: 405, 44:495, 44:496, 44:501–506, 45:350
Anulocaulis leiosolenus, 39:340
Anura, 38:100–104, 40:111–116, 41:35–42, 42:210–217
Anzanycteris, 38:117
anzensis, 38:111, 38:115
Aotus azarai, 44:328
Apatemon gracilis, 39:204, 40:327
Apetomon gracilis, 40:326
Apharnogaster, 44:459
cockerelli, 46:104–106
texanus, 45:119
treatae, 38:138
Aphanostephus, 45:92, 45:93
ramosissimus, 42:444
ramosissimus, 44:11, 44:12, 44:14
skirrhobasis, 45:435, 45:441
Aphelocoma
californica, 43:170
coerulescens, 37:293, 37:388, 37:400, 40:88, 40:233, 41:270, 43:456
coerulescens, 40:183
ultramarina, 37:388, 40:232–233, 40: 341, 41:270, 42:226, 45:173
Aphenogaster, 37:110
Aphididae, 41:436, 46:241
Aphodius aenulus, 37:107
Aphonopelma
crinitum, 44:518
nayaritum, 45:302, 45:304
Aphredoderidae, 40:316
Apiaceae, 45:441
Apidae, 38:291, 42:89
Apion, 37:108
Apis mellifera, 39:339, 39:382, 40:429, 41:258, 42:89, 45:3
Aplectana
americana, 40:114
itzocanensis, 46:223–225, 46:228, 46: 229
Aplocheilidae, 44:168
Aplodinotus grunniens, 41:301, 41:302, 42:268, 42:273, 42:283, 42:285, 45: 279
Aplodontia rufa, 43:345
Apobaetis, 38:252
indeprensus, 38:255
Apocyclops panamensis, 43:258
Apocynaceae, 44:507
Apocynum cannabinum, 44:279
Apodemia
mormo, 39:142
palmerii, 39:142
Apodidae, 38:62
Aporocactus flabelliformis, 45:79
Aporosaura anchietae, 43:391
Aposematic coloration in *Dactylotum variegatum* (Orthoptera: Acrididae): support from vertebrate feeding trials, Paul R. Neal, Mark R. Stromberg, and Karen A. Jepson-Innes, 39:21–25
Apparent changes in the composition of a community of cnemidophorine lizards (Sauria: Teiidae) in a subtropical Texas forest, James M. Walker, Mark A. Paulissen, and James E. Cordes, 41:64–67
Apterostygma pilosum, 44:458, 44:459
Aquatic lepidopteran (*Parapoynx obscuralis*, Pyralidae) on cultured Texas wildrice (*Zizania texana*, Poaceae), occurrence of an, Joe N. Fries and Paula Power, 44:213–214
Aquatic oligochaeta (Annelida: Clitellata) of Montezuma Well, Arizona: a near thermally constant limnocrene, the, Mark J. Wetzel, Gaye E. Oberlin, and Dean W. Blinn, 44: 514–518
Aquila chrysaetos, 37:395, 37:397, 39:305, 43:345, 45:206
Aquilar R., Sergio, see Eitniear, Jack C., —
Ara
ambigua, 46:252
macao, 46:252
Araceae, 43:74
Arachnida, 38:236–240, 43:296–299, 45:443–449
Araeoschizus
castipennis, 45:309
hardyi, 45:309
Araliaceae, 43:74
Aranda, J. Marcelo, see Hernández-Huerta, Arturo, —
Araneae, 37:132–137, 39:391–394, 45: 128–132, 45:299–305
Araneidae, 45:462
Arbutus, 40:228
arizonica, 40:340, 42:133, 44:337, 45: 172, 46:63, 46:195
menziesii, 39:166, 42:2
xalapensis, 37:434, 42:133
Arceuthobium, 42:201
tsugense, 42:202
vaginatum, 39:89
Archaeofaunal remains of common carp (*Cyprinus carpio*) from a historic Pima campsite in southern Arizona, Steven R. James, 38:280–281
Archaeological and paleontological fish remains from the Salton Basin, southern California, Kenneth W. Gobalet and Thomas A. Wake, 45:514–520
Archaeological evidence for endemic fishes of California's Central Valley in the coastal Pajaro-Salinas Basin, additional, Kenneth W. Gobalet, 38:218–223
Archaeological occurrence of the meadow vole, Microtus pennsylvanicus, in Chihuahua, México, Oscar J. Polaco and Ana Fabiola Guzmán, 42:101–102
Archer, Tim J., Observations on nesting and display flights of the vermilion flycatcher in western Texas, 41:443–444
Archilochus
alexandri, 42:226

alexandri, 37:388, 37:390, 42:182, 42:186
colubris, 46:116
Archilocus alexandri, 38:375, 40:357
Archips argyrospila, 42:155–161
Archocentrus
octofasciatus, 44:168, 44:169, 44:171
spilurus, 44:168, 44:170
Archoplites interruptus, 38:218, 38:221
Arcidens wheeleri, 41:326
Arctiidae, 38:3, 40:232–233
Arctium, 46:116, 46:240
Arctodiaptomus dorsalis, 43:258, 43:261
Arctonotus lucidus, 42:89
Arctopithecus castaneiceps, 44:410
Arctopsyche grandis, 39:252
Arctostaphlus pungens, 37:434
Arctostaphylos, 38:176, 38:290, 38:291, 39:133, 40:340, 41:271, 45:39, 46:63, 46:195
adenotricha, 43:209
insularis, 45:509
patula, 38:278
polifolia, 38:131
pungens, 38:128, 39:130, 39:134, 45:172
Arctostaphylus, 38:79
Ardea
alba, 43:496
cinerea, 42:58
herodias, 37:400, 38:60, 38:61, 38:63, 41:341, 42:225
Ardeidae, 38:61, 41:341, 42:225
Ardisia crenata, 42:503–504
Ardisia crenata (Myrsinaceae: new to Texas, Jason R. Singhurst, Wendy J. Ledbetter, and Walter C. Holmes, 42:503–504
Arecaceae, 44:507, 45:421–430
Arenotherus
joshuaensis, 43:291–295
magnellus, 45:448
magnus, 45:448
mumai, 45:443, 45:445–448
puebloensis, 45:443, 45:445–448
Argasidae, 42:331
Argia, 44:25
Argopecten irridians, 44:468
Arhythmorhynchus brevis, 41:289
Ariidae, 46:154
Arisaema
dracontium, 45:404
triphyllum, 45:400
Aristida, 37:49–51, 37:213, 38:151, 38:208, 38:225, 38:226, 38:229, 38:275, 39:344–347, 40:274, 41:184, 41:253, 42:189, 42:443, 43:451, 44:1, 44:7, 45:419, 45:444, 46:241, 46:286, 46:290, 46:292, 46:396
dichotoma, 44:441
longespica, 45:435, 45:442
longiseta, 39:96, 42:254, 42:479, 43:450
oligantha, 38:286, 45:407, 45:412, 45:414, 45:419, 45:420
purpurascens, 45:412, 45:414
purpurea, 38:286, 43:196, 44:437, 45:105, 46:173, 46:285
ternipes, 43:450
Aristolochia
coryii, 46:402
wrightii, 46:402
Aristolochiaceae, 46:402
Arita, Héctor T., and Jorge A. Vargas, Natural history, interspecific association, and incidence of the cave bats of Yucatán, México, 40:29–37
Arizona elegans, 40:334, 41:185, 42:330, 43:443, 43:445
Arkansia wheeleri, 41:325–327, 43:341
Armadillidiidae, 45:462
Armadillidium vulgare, 45:456, 45:460, 45:462, 45:465, 45:466
Armella, Miguel A., see Ramírez-Pulido, José, —
Armella, Miguel Angel, see Ramírez-Pulido, José, —
Armstrong, Fred, see Harveson, Louis A., —
Army ant from southern Texas (Hymenoptera: Formicidae), a new, William P. MacKay, 43:333–335
Arnett, Johnny, see Cooper, William E., Jr., and —
Arnica
cordifolia, 43:205, 43:208–212
latifolia, 43:205
Arnoglossum plantagineum, 45:4
Arphia
pseudonietiana, 39:22
sulphurea, 37:363, 37:364, 37:366, 37:368, 37:370
xanthoptera, 37:364
Arremon aurantiirostris, 43:232
Arremonops
chloronotus, 43:232
rufivirgatus, 43:232
Arsuffi, Thomas L., see Horne, Francis R., —
Artemisia, 38:286, 43:125, 46:241, 46:323
california, 42:359
californica, 39:354, 39:355, 42:360, 44:406
filifolia, 40:288, 41:49, 46:296
ludoviciana, 41:55, 45:47
nova, 39:299, 46:184
tridentata, 39:186, 43:138, 46:184, 46:324
Artemia, 39:372
franciscana, 38:389
Artemisia, 37:114, 41:321, 43:136, 44:12, 45:350
californica, 42:340, 45:509
dracunculus, 44:436
filifolia, 38:225, 39:96, 43:166, 44:431, 45:390, 45:391, 45:408, 45:409, 45:412
frigida, 44:101
ludoviciana, 40:137, 43:196
psilostachya, 45:414
scopulorum, 43:208, 43:212
tridentata, 38:57, 38:96, 38:177, 39:53, 41:214, 43:210
Arthrocnemetea fruticosi, 40:388, 40:390
Arthrocnemetum
macrostachyi, 40:394, 40:395, 40:403
subterminalis, 40:394, 40:402, 40:403
Arthrocnemo glauci, 40:394, 40:395, 40:401, 40:403
Arthrocnemum, 40:393, 40:403
macrostachyum, 40:394, 40:396, 40:401
subterminale, 40:394, 40:399, 40:401
Arthrolips decolor, 45:464
Arthropod associates and herbivory on tarbush in southern New Mexico, T. D. Schowalter, 41:140–144
Artibeus
hirsutus, 44:113
intermedius, 45:344
jamaicensis, 37:415–418, 38:24–29, 38:81, 39:281, 40:29, 40:33–35, 40:37, 44:233, 45:341, 45:344
lituratus, 37:415, 38:24–29, 38:81, 40:34, 45:344
phaeotis, 38:81
planirostris, 44:326, 44:327
toltecus, 39:281
Artimesia tridentata, 44:240
Arundinaria gigantea, 45:400, 45:402, 45:403, 45:405, 45:408
Arundo donax, 41:137, 44:535, 44:537
Ascaridia galli, 40:326
Asclepiadaceae, 43:42, 45:441, 46:401, 46:402
Asclepias, 37:369, 43:450
arenaria, 44:431
curassavica, 43:276
exaltata, 44:249–251, 44:254
incarnata, 44:439
oenotheroides, 45:433, 45:435, 45:441
perennis, 44:250, 44:251
pumila, 40:137, 44:436
ruthiae, 44:247–255
sanjuanensis, 44:247–255
syriaca, 42:410, 43:431, 43:435, 44:254
texana, 44:250, 44:251
tuberosa, 44:253
Ash-throated flycatcher eats a *Cnemidophorus* lizard, Marco A. Gurrola-Hidalgo, 38:179
Ashe juniper (*Juniperus ashei*: Cupressaceae) canopy and litter effects on understory vegetation in a juniper-oak savanna, Lisa Y. Yager and Fred E. Smeins, 44:6–16
Ashmunella pasonis, 42:471–474
Asiatic clam *Corbicula fluminea* (Bivalvia: Corbiculidae), in Mexico, new southernmost record of the, Rob-

erto Torres-Orozco B. and Emilio Revueltas-Valle, 41:60–61
Asidina confluens, 45:309
Asidopsis
opaca, 42:352, 45:464
polita, 42:352, 46:209
Asilidae, 37:171
Asimina, 39:339
triloba, 44:427, 45:400, 45:401, 45:404, 45:410
Asio otus, 44:316
Asplanchna
priodonta, 45:369
sieboldi, 45:369
Asplanchnidae, 45:369
Asplanchnopus multiceps, 45:369, 45:371, 45:372
Associations between desert mule deer and collared peccaries, Paul R. Krausman, Josh T. Avey, and John C. Tull, 44:543–544
Associative learning and the use of cache markers by yellow pine chipmunks (*Tamias amoenus*), Stephen B. Vander Wall and Edward Peterson, 41:88–90
Assortative mating by size in two species of *Chauliognathus* (Coleoptera: Cantharidae), Ruth Bernstein and Stephen Bernstein, 43:62–69
Astacidae, 42:151
Aster, 40:137
ericoides, 44:433, 44:436, 45:411–413
lanceolatus, 44:439
patens, 45:412
simplex, 44:429
subulatus, 44:437–439, 45:409, 45:414, 45:415, 45:417, 45:420
tanacetifolius, 37:51, 37:52
Asteraceae, 37:367, 40:268–272, 42:242–244, 44:272–277, 44:507, 45:1–5, 45:15–23, 45:95, 45:431, 45:436, 45:440, 45:441, 46:286, 46:403
Asterella californica, 45:231
Asterella tripolium, 40:388–391
Astragalus, 38:226, 43:49, 43:138, 43:450, 46:240
bilbullatus, 42:391
crassicarpus, 44:435
cremnophylax, 41:169–178
lentiginosus, 42:328–329
miser, 43:210
nuttalianus, 42:328
nuttallianus, 45:103
Astragalus lentiginosus var. *borreganus* growing from a heteromyid seed cache, evidence of, Scott D. White and Stephen J. Myers, 42:328–329
Astronium graveolens, 45:340
Astyanax
aeneus, 44:168, 44:170
altior, 44:171
mexicanus, 37:180–184, 37:262–265, 42:266, 42:268, 45:278, 45:286, 46:217
Atanenius, 45:464
desertus, 37:107
Athene cunicularia, 37:388, 37:389, 39:356, 43:344, 44:485, 44:486
Atherinella, 44:168, 44:170
Atherinidae, 38:221, 40:316, 41:288–292, 42:283, 42:286, 42:287, 44:168
Atheriniformes, 40:11–17, 41:482
Atherinomorus stipes, 44:168
Atherinops affinis, 38:219, 38:221
Atherinopsidae, 44:168
Atherinopsis californiensis, 38:219, 38:221
Athous, 45:464
Athripsodes transversus, 38:21
Atractoscion nobilis, 38:220, 38:221
Atractosteus spatula, 46:151–157
Atriplex, 37:270, 38:225, 40:225, 40:263, 42:220, 42:224, 43:48, 44:12
canescens, 37:114, 38:97, 39:53, 39:365, 40:264, 41:216, 41:427, 42:218, 42:221–222, 42:328, 42:352, 43:54, 43:165, 43:176–182, 43:450, 43:470, 44:101, 44:194, 44:195, 44:432, 45:185, 45:315, 45:444
confertifolia, 38:96, 45:185
glauca, 40:397
hastata, 40:397
julacea, 40:395, 40:400
lampa, 42:489, 42:490, 42:492
lentiformis, 39:27, 39:138, 40:262, 40:264
patula, 44:349
polycarpa, 39:91, 40:360, 41:129, 42:328, 44:368, 46:5, 46:67
prostrata, 40:399
semibaccata, 40:399, 44:349
spinifera, 44:368, 46:67
subspicata, 40:162
watsonii, 40:400
Atriplici
glaucae, 40:394, 40:402, 40:403
julaceae, 40:394, 40:395, 40:402
Atropoides nummifer, 40:122
Atta, 45:132
mexicana, 44:459
Attelabidae, 44:508
Attenella, 38:267, 38:269
margarita, 38:264, 38:269
Attheyella pilosa, 43:259
Attila spadiceus, 43:231, 43:232
Atypholoceras multidentatus, 46:94
Atypholceras
echis, 46:95
multidentatus, 46:95
Auchmobius picipes, 45:309
Augenstein, Elise J., see Pellmyr, Olle, and —
Aulacoseira, 46:203
Aulocara femoratum, 39:22
Auplopus mexicanus, 43:253
Auriparus flaviceps, 37:255, 38:72–73, 40:357, 41:261, 42:226
Austin, Terry A., and Frederick B. Stangl, Jr., Variation in the deciduous dentition of pocket mice (Heteromyidae: *Perognathus* and *Chaetodipus*), 40:104–107
Auth, David L., see Smith, Hobart M., —
Automolus ochrolaemus, 43:231
Autumn flowering population of prairie nymph (*Herbertia lahue* ssp. *caerulea*) in southwestern Louisiana, observations on an, Stephen R. Johnson, 45:232–234
Availability and ingestion of lead shot by mourning doves (*Zenaida macroura*) in southeastern New Mexico, Troy L. Best, Tom E. Garrison, and C. Gregory Schmitt, 37:287–292
Avena, 40:87, 44:1, 45:509
barbata, 41:130
fatua, 39:156, 42:2
sativa, 42:478, 42:480, 42:484
Avery, Michael L., and Charles van Riper, III, Post-breeding territoriality and foraging behavior in Costa's hummingbird (*Calypte costae*), 38:374–377
Aves, 37:344–348, 43:496–498, 45:238–241
Avey, Josh T., see Krausman, Paul R., —
Avian use of vernal pools at the Santa Rosa Plateau Preserve, Santa Ana Mountains, California, William S. Baker, Floyd E. Hayes, and Earl W. Lathrop, 37:392–403
Avicenia nitida, 45:79
Avicennia germinans, 38:169, 44:267
Avifauna de dos asociaciones vegetales en el municipio de Galeana, Nuevo León, Mexico, Armando Jesus Contreras-Balderas, 37:386–391
Avifaunal censuses spanning one-half century on an island of white firs (*Abies concolor*) in the Mojave Desert, seven, Ned K. Johnson, 40:76–85
Axis axis, 46:118
Axmann, Beverly D., and Alan K. Knapp, Water relations of *Juniperus virginiana* and *Andropogon gerardii* in an unburned tallgrass prairie watershed, 38:325–330
Ayenia, 43:276
microphylla, 43:39
Ayers, Andrew D., see McKinney, Ted, —
Aythya
affinis, 37:400, 43:222
americana, 37:65–72, 37:358, 37:400, 38:61, 38:63, 41:444, 42:40–51, 43:221
collaris, 37:396, 38:166–168, 43:222
marila, 42:457

valisineria, 37:71, 42:49
valisneria, 41:341, 43:222

B. sowerbyi, 44:516
Baccharis, 42:319
Baccharis, 40:263, 42:14, 44:458, 45:15–23, 46:191
glutinosa, 39:24, 39:138, 42:13, 42:138, 45:458, 46:194–196, 46:198, 46:199
halimifolia, 45:15, 45:17, 45:18, 45:20
neglecta, 45:17, 45:18, 45:20
pilularis, 39:355, 44:349, 45:17
pteronioides, 37:49, 37:52, 37:53, 37:73–74, 42:188–193
pteronoides, 39:22
salicifolia, 40:262, 40:264, 42:75, 44:226, 45:17
salicina, 45:17, 45:386, 45:409, 45:414, 45:420
sarathroides, 38:208, 38:346, 40:264, 43:426, 46:4, 46:195–197, 46:199
Baccus, John T., and John C. Posey, Melanism in white-tailed deer in central Texas, 44:184–192
Baccus, John T., see Eitniear, Jack C., —
Baccus, John T., see Sawyer, Marlin W., and —
Baccus, John T., see Sutton, Kari, —
Bacillaria paradoxa, 46:203
Bacillariophyta, 46:200–207
Bacillus, 38:74
psychrophilus, 38:32–34
Bacopa, 37:208
monnieri, 44:266, 44:267
rotundifolia, 38:166, 44:443, 45:418
Bacterium chitinivorum, 37:248
Baeodon, 38:117
Baeolophus
bicolor, 43:279, 43:282
wollweberi, 43:279–282, 45:154
Baetidae, 38:253, 38:254, 38:268, 39:61, 39:251, 41:70–72, 41:384, 42:151, 44:24
Baetis, 44:24
armillatus, 38:255
bicaudatus, 38:255, 38:257, 38:269, 39:249–251
dardanus, 38:256
flavistriga, 38:255
frondalis, 39:60
hageni, 38:258
insignificans, 38:254
intermedius, 38:256
magnus, 38:255, 38:256, 44:23
minimus, 38:255
moffati, 38:256
notos, 38:256
parvus, 38:258
propinquus, 38:256, 39:60
punctiventris, 38:255, 38:256
quilleri, 38:258
rusticans, 38:253
tricaudatis, 44:23
tricaudatus, 38:256, 38:270, 39:251
virile, 38:256
Baetisca, 38:268
Baetiscidae, 38:268, 42:151
Baetodes, 38:268
Bahia dissecta, 46:286
Baileya multiradiata, 38:208, 43:450
Baiomys taylori, 38:285–286, 38:393–395, 39:209, 41:123–128, 46:332, 46:334, 46:342
Baird, Troy A., see McCoy, J. Kelly, —
Baker, Dan L., see Peles, John D., —
Baker, William S., Floyd E. Hayes, and Earl W. Lathrop, Avian use of vernal pools at the Santa Rosa Plateau Preserve, Santa Ana Mountains, California, 37:392–403
Bakerilymnaea techella, 43:283
Balantiopteryx plicata, 44:113, 44:114
Balda, Russell P., see Stotz, Nancy G., and —
Baldassarre, Guy A., see Migoya, Rodrigo, and —
Ballard, Bart M., and Thomas C. Tacha, Habitat use by geese wintering in southern Texas, 40:68–75
Ballard, Warren B., see Cunningham, Stanley C., —
Ballard, Warren B., see Kamler, Jan F., —
Ballinger, Royce E., Geoffrey R. Smith, and Joseph W. Nietfeldt, Elevational variation in age at maturity in *Sceloporus jarrovi*: an experimental evaluation, 41:179–182
Ballinger, Royce E., see Lemos-Espinal, Julio A., —
Ballinger, Royce E., see Smith, Geoffrey R., —
Banda-Valdés, Alfonso, see García de León, Francisco J., —
Baptisia
bracteata, 45:407, 45:434, 45:435, 45:441
lactea, 44:439
Barbaetis, 38:252
cestus, 38:257, 38:258, 38:270
Barbault, Robert, see Ortega-Rubio, Alfredo, —
Barre, 45:463
Barisia
imbricata, 37:426, 39:172, 39:313, 39:314, 39:316, 41:360–364, 46:393
rudicollis, 39:171, 39:172, 41:359–364, 46:391–396
Barisia rudicollis (Sauria: Anguidae) arboreal? A morphological analysis, is, J. Kelly McCoy and Stanley F. Fox, 41:359–364
Barko, Valerie A., James H. Shaw, and David M. Leslie, Jr., Birds associated with black-tailed prairie dog colonies in southern shortgrass prairie, 44:484–489
Barn owl prey use in Chihuahuan Desert foothills, Eric E. Jorgensen, Scott M. Sell, and Stephen Demarais, 43:53–56
Barnes, Paul W., see Gass, Leila, and —
Barquez, Rubén M., see Díaz, M. Mónica, and —
Barrett, Paul J., and O. Eugene Maughan, Spatial habitat selection of roundtail chub (*Gila robusta*) in two central Arizona streams, 40:301–307
Barron, Gina L., and Thomas A. Jefferson, First records of the melon-headed whale (*Peponocephala electra*) from the Gulf of Mexico, 38:82–85
Barrows, Cameron W., Habitat relationships of the Coachella Valley fringe-toed lizard (*Uma inornata*), 42:218–223
Barrows, Cameron W., Tenebrionid species richness and distribution in the Coachella Valley sand dunes (Coleoptera: Tenebrionidae), 45:306–312
Barry, Robert X., see Hardy, Paul C., —
Barrya wrightii, 40:186
Barthell, John F., and Johannes M. H. Knops, Visitation of evening primrose by carpenter bees: evidence of "mixed" pollination syndrome, 42:86–93
Bartlettina, 46:403
Bartramia longicauda, 44:486
Bash, Dallas L., see Earl, Richard A., and —
Basilarchia weidemeyerii, 44:376–378
Basiliscus, 41:359
basiliscus, 45:360
Baskin, Carol C., Jerry M. Baskin, and O. W. Van Auken, Dormancy-breaking and germination requirements in seeds of the summer annual *Palafoxia callosa* (Asteraceae) from central Texas, 44:272–277
Baskin, Carol C., Jerry M. Baskin, and O. W. Van Auken, Temperature requirements for dormancy break and germination in achenes of the winter annual *Lindheimera texana* (Asteraceae), 40:268–272
Baskin, Carol C., Jerry M. Baskin, and Susan E. Meyer, Seed dormancy in the Colorado Plateau shrub *Mahonia fremontii* (Berberidaceae) and its ecological and evolutionary implications, 38:91–99
Baskin, Carol C., see Baskin, Jerry M., —
Baskin, Jerry M., Kristin M. Snyder, Jef-

frey L. Walck, and Carol C. Baskin, The comparative autecology of endemic, globally-rare and geographically-widespread, common plant species: three case studies, 42:384–399
Baskin, Jerry M., see Baskin, Carol C., —
Bassariscus
astutus, 37:105, 37:202–205, 38:142, 41:188, 44:144, 45:330, 46:119
sumichrasti, 39:282
Bassia hyssopifolia, 39:186
Bastardia viscosa, 43:276, 43:277
Bat reproduction in the Luquillo Experimental Forest of Puerto Rico, Michael R. Gannon and Michael R. Willig, 37:414–419
Batceae, 45:441
Bates, John M., Frugivory on *Bursera microphylla* (Burseraceae) by wintering gray vireos (*Vireo vicinior*, Vireonidae) in the coastal deserts of Sonora, Mexico, 37:252–258
Bathygobius soporator, 44:169
Batis maritima, 38:169, 40:399, 45:434, 45:435, 45:441
Batrachoididae, 44:168
Bats captured in two ponderosa pine habitats in north-central Arizona, Thomas E. Morrell, Michael J. Rabe, James C. deVos, Jr., Heather Green, and C. Richard Miller, 44: 501–506
Bats during a total solar eclipse in Mexico, observations of, Oscar Sánchez, Jorge A. Vargas, and William López-Forment, 44:112–115
Bats from the middle Rio Grande Valley, New Mexico, additional records of, Ernest W. Valdez, James N. Stuart, and Michael A. Bogan, 44: 398–400
Batuliodes obesus, 45:309
Batulius setosus, 45:309
Bauerus dubiaquercus, 38:80, 38:81, 43: 495–496, 45:342, 45:344
Bauerus dubiaquercus (Vespertilionidae) in Oaxaca, Mexico, first record of, Miguel A. Briones Salas, 43:495–496
Baulius tenuis, 46:209
Baumgardner, George D., Norman O. Dronen, and David J. Schmidly, Distributional status of short-tailed shrews (genus *Blarina*) in Texas, 37:326–328
Bazeer, Selvi K., see Williamson, Paula S., and —
Bdelloid rotifer from Sonora, Mexico, a new species of, Aydin Örstan, 40: 255–258
Bearded wood-partridge, *Dendrortyx barbatus*, (Aves: Phasianidae) in Mexico, new records of, Jack C. Eitniear, Sergio Aquilar R., Victor Gonzalez, Roberto Pedraza R., and John T. Baccus, 45:238–241
Beaucarnea gracilis, 43:39
Beauchampiella eudactylota, 45:368
Bebbia juncea, 46:5
Beck, Thomas D. I., see Andelt, William F., and —
Bed-site selection by desert mule deer in southern Arizona, John C. Tull, Paul R. Krausman, and Robert J. Steidl, 46:354–357
Beggiatoaceae, 41:328–331
Behavior and efficiency of juvenile armadillos (*Dasypus novemcinctus*) foraging on earthworms, Renn Tumlison and Creed Tumlison, 40:224–225
Behavior of captive mountain sheep in a Mojave Desert environment, Matthew J. Zinc and Paul R. Krausman, 45:184–195
Behavior of the lizard *Uta stansburiana* during a total solar eclipse, observations on, Sergio Alvarez-Cárdenas, Alfredo Ortega-Rubio, Patricia Galina-Tessaro, and Fernando Vega-Villasante, 42:108–112
Behavioral interactions between red imported fire ants (*Solenopsis invicta*) and three rodent species of South Texas, Katherine A. Lechner and David O. Ribble, 41:123–128
Beheler, Amanda S., Rod N. Williams, Olin E. Rhodes, Jr., Erin P. Reat, Alan M. Fedynich, Danny B. Pence, and James F. Bergan, Genetic polymorphism in two species of whistling-ducks from Texas, 45: 234–238
Bekoff, Marc, see Halloran, Margaret E., and —
Belk, Denton, and Michael Fugate, Two new *Branchinecta* (Crustacea: Anostraca) from the southwestern United States, 45:111–117
Belk, Denton, see Brown, John W., —
Belk, Denton, see Stern, Sharon Maynard, and —
Belk, Mark C., see Lydeard, Charles, and —
Bellantoni, Elizabeth S., and Paul R. Krausman, Habitat use by collared peccaries in an urban environment, 38:345–351
Bello, Joaquín, see Hernández-Huerta, Arturo, —
Belomicrus quemaya, 43:251
Belonesox belizanus, 44:168, 45:516, 45: 520
Belonidae, 44:168
Belostomatidae, 37:170
Bembidion, 37:106, 42:498, 42:499
Benefits and constraints on plant defense against herbivores: spines influence the legitimate and illegitimate flower visitors of yellow star thistle, *Centaurea solstitialis* L. (Asteraceae), Anurag A. Agrawal, Jennifer A. Rudgers, Louis W. Botsford, David Cutler, Jessica B. Gorin, Carolyn J. Lundquist, Brian W. Spitzer, and Alisa L. Swann, 45:1–5
Benn, Steve J., see Glass, Jason W., —
Bennett, Kathryn D., see Biggs, James R., —
Bennett, Peter S., and Michael R. Kunzmann, Suppression of saguaro cactus flower-bud formation by roosting vultures in Arizona, 39: 200–203
Berberidaceae, 38:91–99
Berberis
aquifolium, 38:91, 38:96
fremontii, 38:91, 38:92
koreana, 38:91, 38:96
nevinii, 38:91, 38:96
repens, 38:91, 38:96, 44:502
thunbergii, 38:91, 38:96
trifoliata, 38:228
trifoliolata, 38:78, 38:79, 38:151, 40: 429, 42:444, 43:190, 43:200, 44:11, 46:195
vulgaris, 38:91, 38:96
Berchemia scandens, 45:400, 45:402, 45: 407
Bergan, James F., see Beheler, Amanda S., —
Bergersen, Eric P., see Chart, Thomas E., and —
Bergersen, Eric P., see Trammell, Melissa A., —
Bergman, David L., Robert D. Bluett, and Alan R. Tipton, An alternative method for capturing armadillos, 40:414–416
Bergmann, David J., and Stephen J. Chaplin, Correlates of species composition of grasshopper (Orthoptera: Acrididae) communities on Ozark cedar glades, 37:362–371
Berk, Ilona M., see Treviño-Villarreal, Julián, —
Berkhouse, Casey S., and Joe N. Fries, Critical thermal maxima of juvenile and adult San Marcos salamanders (*Eurycea nana*), 40:430–434
Bermudez, Francisca C., James N. Stuart, Jennifer K. Frey, and Raul Valdez, Distribution and status of the Virginia opossum (*Didelphis virginiana*) in New Mexico, 40:336–340
Bermudez, Francisca C., see Frey, Jennifer K., —

Bernardia
mexicana, 43:39
myricaefolia, 43:276
Bernstein, Ruth, and Stephen Bernstein, Assortative mating by size in two species of *Chauliognathus* (Coleoptera: Cantharidae), 43:62–69
Bernstein, Stephen, see Bernstein, Ruth, and —
Berosus, 42:261
Berry, Mark E., and Carl E. Bock, Effects of habitat and landscape characteristics on avian breeding distributions in Colorado foothills shrub, 43:453–461
Berry, William H., see White, P. J., —
Best, Troy L., and Laura L. Janecek, Allozymic and morphologic variation among *Dipodomys insularis*, *Dipodomys nitratoides*, and two populations of *Dipodomys merriami* (Rodentia: Heteromyidae), 37:1–8
Best, Troy L., Marian P. Skupski, and Richard A. Smartt, Food habits of sympatric rodents in the shinnery oak-mesquite grasslands of southeastern New Mexico, 38:224–235
Best, Troy L., see Gay, Samantha W., and —
Best, Troy L., see Hunt, John L., and —
Best, Troy L., Tom E. Garrison, and C. Gregory Schmitt, Availability and ingestion of lead shot by mourning doves (*Zenaida macroura*) in southeastern New Mexico, 37:287–292
Bestelmeyer, Brandon T., and Matthew T. Stevenson, Documenting risk-avoidance in desert rodents using a new technique, 43:397–402
Bestgen, Kevin R., see Bundy, Jay M., and —
Bestgen, Kevin R., see Gutermuth, F. Brandt, —
Betula, 41:207–209, 41:212–214, 41:216, 42:156
glandulosa, 46:107
nigra, 38:275, 45:402, 45:408
papyrifera, 40:130, 40:135
pendula, 38:6
pubescens, 38:1
Betulaceae, 41:209
Bezy, Robert L., see Goldberg, Stephen R., —
Bias, Michael A., and Michael L. Morrison, Movements and home range of salt marsh harvest mice, 44:348–353
Bich, Brian S., Jack L. Butler, and Cheryl A. Schmidt, Effects of differential livestock use on key plant species and rodent populations within selected *Oryzopsis hymenoides*/*Hilaria jamesii* communities of Glen Canyon National Recreation Area, 40:281–287
Bidens, 44:429
aristosa, 43:435
ferulaefolia, 37:299
Bidwell, T. G., see Boyd, Chad S., —
Big free-tailed bat (*Nyctinomops macrotis*) in Colorado, distribution of the, Kirk W. Navo and Jeffery A. Gore, 46:370–376
Big free-tailed bat, *Nyctinomops macrotis*, in Missouri, the, Richard M. Pitts, Gary T. Schimmelpfenig, and Jerry R. Choate, 41:86–87
Biggs, James R., Kathryn D. Bennett, Norah Torrez-Martinez, and Brian L. Hjelle, Sin nombre virus antibody prevalence in rodents of north-central New Mexico, 45:61–66
Bigoniaceae, 43:276
Bihr, Keeley J., and Rosemary J. Smith, Location, structure, and contents of burrows of *Spermophilus lateralis* and *Tamias minimus*, two ground-dwelling sciurids, 43:352–362
Bingham, R. L., see Maehr, D. S., —
Biochemical variation in *Alpheus* (Decapoda, Caridea, Alpheidae) from the coast of Texas: evidence for cryptic species, Matthew R. McClure and Ira F. Greenbaum, 39:63–66
Bioculus, 37:130, 37:131
Biological and ecological aspects of *Microtus oaxacensis* and *Microtus mexicanus*, Cornelio Sánchez H., Carlos J. Alvarez R., and María de Lourdes Romero A., 41:95–98
Biological and ecological notes of *Palaemonetes suttkusi* (Crustacea: Palaemonidae) from Cuatro Cienegas Basin, Coahuila, Mexico, Gabino A. Rodriguez-Almaraz, Jose A. Gonzalez-Aquilar, and Roberto Mendoza-Alfaro, 42:501–503
Biomphalaria, 43:283
Birds associated with black-tailed prairie dog colonies in southern shortgrass prairie, Valerie A. Barko, James H. Shaw, and David M. Leslie, Jr., 44:484–489
Birds from Cozumel Island, Mexico, new records of, Tania M. Macouzet and Patricia Escalante-Pliego, 45:79–81
Birds of a creosotebush community in the Cuatrocienegas Basin, Coahuila, Mexico, Juan A. García-Salas, Armando J. Contreras-Balderas, and José I. González-Rojas, 40:355–359
Birdsong, Melaney, see Elrod, Douglas A., —
Birkeland, Karl W., see Hinchman, Virginia H., and —
Birkenfeld, Gregory F., see Stangl, Frederick B., Jr., —
Birkner, Matt C., see Gold, John R., —
Bison, 37:61, 42:315
antiquus, 42:313
bison, 42:25, 43:417, 44:133
occidentalis, 41:190
Bison performance and productivity on tallgrass prairie, E. Gene Towne, 44:361–366
Bivalvia, 41:60–61, 43:321–332
Biziura lobata, 41:196
Black, Charles, see Johnson, Kristine, —
Black-bellied form of an Abert squirrel (*Sciurus aberti aberti*) from the San Francisco Peaks area, Arizona, W. Sylvester Allred, 40:420
Black-footed ferret odors on behavior and reproduction of prairie dogs, effect of, William F. Andelt and Thomas D. I. Beck, 43:344–351
Black-tailed prairie dogs on reptiles and amphibians in Kansas shortgrass prairie, effects of, Justin E. Kretzer and Jack F. Cully, Jr., 46:171–177
Blacklock, Gene W., see Woodin, Marc C., —
Blakea, 46:403
Blapstinus
fortis, 45:464
histricus, 45:309
metallicus, 37:108
praetensis, 37:108
Blarina, 40:46
brevicauda, 37:326–328
carolinensis, 37:326–328, 39:362
hylophaga, 37:326–328, 44:407–409, 45:45, 45:49–51
Blastocerus dichotomus, 44:331
Blasturus
gravastellus, 38:262
nebulosus, 38:263
Blattidae, 39:92
Bleich, Vernon C., Interactions between coyotes (*Canis latrans*) and mountain sheep (*Ovis canadensis*), 41:81–82
Bleich, Vernon C., see Thompson, J. Rock, —
Blepharoneuron tricholepis, 45:171, 46:285, 46:287, 46:291
Blinn, D. W., see Hardwick, G. G., —
Blinn, Dean W., see Drost, Charles A., and —
Blinn, Dean W., see Oberlin, Gaye E., —
Blinn, Dean W., see Runck, Clay, and —

Blinn, Dean W., see Wetzel, Mark J., —
Block, William M., see Aigner, Paul A., —
Block, William M., see Hall, Linnea S., —
Block, William M., see Morrison, Michael L., —
Blood squirted from the circumorbital sinus and systemic blood in a horned lizard, *Phrynosoma cornutum*, comparison of, George A. Middendorf, III, Wade C. Sherbrooke, and Eldon J. Braun, 46: 384–387
Bluett, Robert D., see Bergman, David L., —
Blutaparon vermiculare, 45:431, 45:434, 45:435, 45:438, 45:439, 45:441
Boa constrictor, 37:426, 39:172, 42:331
Boal, Clint W., and R. William Mannan, Prey sizes of male and female northern goshawks, 41:355–358
Bobcat (*Lynx rufus*) in Jalisco, Mexico, range extension of the, Carlos A. López-González, Alberto González-Romero, and John W. Laundré, 43:103–105
Bobcats in residential areas: distribution and homeowner attitudes, Robert L. Harrison, 43:469–475
Bock, Carl E., and Jane H. Bock, Effects of predator exclusion on rodent abundance in an Arizona semidesert grassland, 39:208–210
Bock, Carl E., and Jane H. Bock, Response of birds to wildfire in native versus exotic Arizona grassland, 37:73–81
Bock, Carl E., and Jane H. Bock, Shrub densities in relation to fire, livestock grazing, and precipitation in an Arizona desert grassland, 42: 188–193
Bock, Carl E., see Berry, Mark E., and —
Bock, Carl E., see Bock, Jane H., and —
Bock, Jane H., and Carl E. Bock, Short-term reductions in plant densities following prescribed fire in an ungrazed semidesert shrub-grassland, 37:49–53
Bock, Jane H., see Bock, Carl E., and —
Body condition, food habits, and molt status of late-wintering ruddy ducks in California, William L. Hohman, C. Davison Ankney, and Douglas L. Roster, 37:268–273
Body mass of American black bears from Florida and Mexico, D. S. Maehr, E. C. Hellgren, R. L. Bingham, and D. L. Doan-Crider, 46: 129–133
Boehmeria cylindrica, 45:388, 45:390, 45: 402, 45:408, 45:410, 45:416
Boerhaavia
intermedia, 38:227
linearifolia, 42:444
spicata, 43:450
Boerhavia spicata, 43:449
Bogan, Arthur E., see Spamer, Earle E.,and —
Bogan, Michael A., see Perry, Travis W., —
Bogan, Michael A., see Valdez, Ernest W., —
Bogertophis subocularis, 41:182–186
Boggs, James F., see Boren, Jon C., —
Bohmiella wilsoni, 38:146–149
Boidae, 42:347–349
Bolbaschoenus maritimus, 44:440
Boleichthys, 40:424
Bolette, David P., Oligacanthorhynchid cystacanths (Acanthocephala) in a long-nosed snake, *Rhinocheilus lecontei lecontei* (Colubridae) and a Mojave rattlesnake, *Crotalus scutulatus scutulatus* (Viperidae) from Maricopa County, Arizona, 42: 232–236
Bolitoglossa
dofleini, 37:316
mexicana, 37:315
mulleri, 37:315–316
odonnelli, 37:315, 37:316
Bolitoglossa mulleri (Caudata: Plethodontidae) from Mexico, first record of, Marco A. Lazcano-Barrero, 37:315–316
Bombacaceae, 44:508
Bombax, 41:458
Bombus, 39:382
pennsylvanicus, 39:339
sonorum, 42:186
vosnesenskii, 42:89
Bombycilla
cedrorum, 37:255
cedrorum, 43:456
garrulus, 37:358
Bonilla, Carlos, Emma Cisneros, and Victor Sánchez-Cordero, First record of the Mexican big-eared bat *Idionycteris phyllotis* (Vespertilionidae) in the state of Oaxaca, México, 37:429–430
Bonine, Kevin E., Gage H. Dayton, and Robin E. Jung, Attempted predation of Couch's spadefoot (*Scaphiopus couchii*) juveniles by ants (*Aphaenogaster cockerelli*), 46:104–106
Boone, Dan B., see Brown, Raymond E., —
Boopedon auriventris, 37:364, 37:365, 37: 368
Bootherium bombifrons, 41:190, 41:191, 42:429
Boraginaceae, 37:197–199, 42:378, 43: 42, 46:240
Borelli, Simone, Peter F. Flolliott, and Gerald J. Gottfried, Natural regeneration in encinal woodlands of southeastern Arizona, 39:179–183
Boren, Jon C., Robert L. Lochmiller, James F. Boggs, and David M. Leslie, Jr., Gastrointestinal helminths of eastern woodrat populations in central Oklahoma, 38:146–149
Borrichia frutescens, 43:276, 43:277, 45: 434, 45:435, 45:437, 45:439, 45:441
Bos
bison, 44:361–366, 45:258
taurus, 37:358, 39:92, 43:300–312, 45: 47, 46:346
Bosmina, 46:24, 46:27
coregoni, 40:323, 40:324, 43:95–96, 46: 215
longirostris, 40:323, 40:324, 43:95–96
Bosmina (*Eubosmina*) *coregoni* (Crustacea, Cladocera) in Missouri: a new record and range extension, a note on the occurrence of, William R. Mabee, 43:95–96
Bosminidae, 40:322, 40:323
Bot fly (*Cuterebra*) infestation on cold-night trap mortality in cactus mice (*Peromyscus eremicus*), the effect of, Lyle B. Nichols, 39:383–386
Botaurus lentiginosus, 38:61
Bothidae, 38:221, 40:297–300
Bothrichloa ischaemum, 45:95, 45:96, 45: 103–105
Bothriechis rowleyi, 40:124–125
Bothriocephalus acheilognathi, 41:289, 41: 290
Bothriochloa, 44:7, 45:106
barbinodis, 37:49–52
ischaemum, 45:387, 45:388, 45:416
saccharioides, 43:450
saccharoides, 41:55, 42:443, 45:411–414, 45:420
Bothrops
asper, 44:481, 44:482
moojeni, 44:481
Botrychium virginianum, 45:403
Botsford, Louis W., see Agrawal, Anurag A. —
Bounds, Dixie L., and William W. Shaw, Movements of suburban and rural coyotes at Saguaro National Park, Arizona, 42:94–99
Bouteloua, 37:49, 37:387, 38:151, 38:225, 38:226, 38:229, 41:229, 43:165, 43: 451, 43:498, 44:9–11, 44:13, 44:14
aristidoides, 43:450
barbata, 40:355, 43:450
chondrosioides, 37:50, 37:51
curtipendula, 37:50, 37:51, 37:369, 39: 2, 39:96, 39:119, 39:181, 40:273–280, 41:27, 41:184, 41:251, 41:253, 41:254, 42:189, 42:441, 42:443, 43:

166, 43:450, 44:1, 44:6–8, 44:11, 44:12, 44:401, 44:431–436, 44:438, 44:442, 45:387, 45:388, 45:402, 45:406, 45:409, 45:412–414, 45:417, 45:419, 46:179, 46:248, 46:296
eriopoda, 38:43, 38:225, 39:122–127, 39:342, 39:343, 39:345–347, 41:140, 41:184, 41:239, 43:167, 43:270, 43:450, 45:314, 45:414, 45:444
gracilis, 37:50, 37:51, 37:73, 37:367, 37:380, 38:286, 39:2, 39:22, 39:299, 40:137, 40:288, 41:33, 41:49, 41:255, 41:425, 42:189, 42:352, 43:167, 44:101, 44:122, 44:195, 44:379, 44:382, 44:401, 44:431, 44:432, 44:435–437, 44:442, 44:487, 45:222, 45:388, 45:406, 45:408, 45:409, 45:411, 45:413, 45:414, 45:419, 45:444, 46:172, 46:207, 46:210, 46:248, 46:285, 46:287, 46:291
hirsuta, 37:50, 37:51, 38:286, 40:137, 41:253, 42:441–443, 44:401, 44:432, 44:435, 44:436, 45:90, 45:387, 45:402, 45:406, 45:409, 45:413, 45:414, 45:417, 45:419, 45:420
rigidiseta, 42:443, 45:402, 45:406, 45:409, 45:414
trifida, 41:251, 41:253, 42:443, 44:7
Bovidae, 38:164
Bowers, Janice E., and Elizabeth A. Pierson, Implications of seed size for seedling survival in *Carnegiea gigantea* and *Ferocactus wislizeni* (Cactaceae), 46:272–281
Bowers, Janice E., Growth rate and life span of a prickly pear cactus, *Opuntia engelmannii*, in the northern Sonoran Desert, 41:315–318
Bowers, Janice E., The effect of drought on Engelmann prickly pear (Cactaceae: *Opuntia engelmannii*) fruit and seed production, 42:240–242
Bowles, David E., and Dennis D. Pinkovsky, Occurrence of larval black flies and horse flies in an Ozark headwater stream, 38:86–87
Box-trap design on rodent captures, the effect of, Eric E. Jorgensen, Stephen Demarais, and William R. Whitworth, 39:291–294
Boyd, Chad S., Lance T. Vermeire, T. G. Bidwell, and Robert L. Lochmiller, Nutritional quality of shinnery oak buds and catkins in response to burning or herbivory, 46:295–301
Boykin, Ken, and Naida Zucker, Winter aggregation on a small rock cluster by the tree lizard *Urosaurus ornatus*, 38:304–306
Brachionidae, 45:368, 46:213–216
Brachionus
bidentatus, 45:368
forficula, 46:213–216
patulus, 45:368
quadridentatus, 45:368
urceolaris, 45:368
Brachionus (Rotifera: Monogononta: Brachionidae) new to North America, a, William R. Mabee, 46:213–216
Brachycentridae, 39:252, 42:498, 44:24
Brachycercus
edmundsi, 38:267
prudens, 38:267
tuberculatus, 38:267
Brachycoelium
hospitale, 46:228
salamandrae, 40:111, 40:112, 40:114
Brachymyrmex depilis, 44:281
Brachypelma
klaasi, 45:304
vagans, 44:519, 44:520
Brachyrhaphis
episcopi, 41:67, 41:68
hartwegi, 41:68, 41:69
holdridgei, 41:69
punctifer, 41:67–69
rhabdophora, 41:69
roseni, 41:69
terrabensis, 41:68
Brachythecium
collinum, 45:228
fendleri, 45:228
rutabulum, 45:228
utahense, 45:228
Braconidae, 37:171
Bradford, David F., David M. Graber, and Farinaz Tabatabai, Population declines of the native frog, *Rana muscosa*, in Sequoia and Kings Canyon national parks, California, 39:323–327
Bradley, Robert D., see Peppers, John A., —
Bradypus variegatus, 44:410–414, 46:252
Bradytriton, 43:90
Brahea
dulcis, 44:458
nitida, 43:39
Branchinecta, 39:163, 39:164, 45:111–117
conservatio, 45:111, 45:114, 45:115
kaibabensis, 45:114–117
lindahli, 38:389
longiantenna, 45:115
lynchi, 45:114
mackini, 38:389, 38:390
mesovallensis, 45:112–115, 45:117
packardi, 38:85, 39:161, 39:206, 42:259, 42:260, 42:262
paludosa, 44:212–213, 45:111, 45:117
sandiegonensis, 38:389, 38:390
Branchinecta (Crustacea: Anostraca) from the southwestern United States, two new, Denton Belk and Michael Fugate, 45:111–117
Branchinectidae, 39:206
Branchiopoda, 40:322–324, 42:259–264
Brandenburg, W. Howard, and Keith B. Gido, Predation by nonnative fish on native fishes in the San Juan River, New Mexico and Utah, 44:392–394
Brandt, Thomas M., see Simon, Thomas P., —
Branta
bernicla, 38:169
canadensis, 37:358, 37:396, 38:61, 40:68–75, 41:446, 42:68–73, 45:235
sandvicensis, 45:263
Brantley, Sandra L., Paulette L. Ford, Richard A. Fagerlund, and David C. Lightfoot, Surface-active arthropods of shortgrass prairie: new county and state records from New Mexico, 46:207–209
Brantley, Sandra L., see Brookhart, Jack O., and —
Brasenia schreberi, 45:388, 45:418
Brassavola nodosa, 45:79
Brassica, 42:410
Brattstrom, Bayard H., see Hager, Stephen B., and —
Brattstrom, Bayard H., Trail marking by coyotes, *Canis latrans*, 44:405–406
Braun, Clait E., see Oyler-McCance, Sara J., —
Braun, Eldon J., see Middendorf, George A., III, —
Braun, Janet K., see Mares, Michael A., —
Brazilian free-tailed bat, *Tadarida brasiliensis* (Chiroptera: Molossidae), in Colorado, records of the, Rick A. Adams and Katherine M. Thibault, 44:542–543
Breceda Solis-Cámara, Aurora M., see Troyo-Diéguez, Enrique, and —
Brecheisen, William R., see Busby, William H., and —
Brechmorhoga, 44:25
pertinax, 41:297
Breeding biology of secondary cavity-nesting birds in Oklahoma, Darrell W. Pogue and William A. Carter, 40:167–173
Breeding biology of the American avocet and black-necked stilt in northern Utah, Tex A. Sordahl, 41:348–354
Breeding biology of the eastern white-winged dove in southern Texas, David A. Swanson and John H. Rappole, 38:68–71
Breeding bird distribution in Chihuahuan Desert habitats, Luis G. Naranjo and Ralph J. Raitt, 38:43–51
Breeding distribution of black-bellied

whistling ducks in Texas, Jon P. Schneider, Thomas C. Tacha, and David Lobpries, 38:383–385
Breeding duck populations and productivity on montane wetlands in Arizona, James H. Gammonley and Leigh H. Fredrickson, 43:219–227
Breeding phenology of the lowland leopard frog (*Rana yavapaiensis*): implications for conservation and ecology, Shawn S. Sartorius and Philip C. Rosen, 45:267–273
Breeding population of Virginia's warblers in the southwestern Black Hills of South Dakota, a, David L. Swanson, Jeffrey S. Palmer, Eric T. Liknes, and Kurt L. Dean, 45:39–44
Breeding season displays of the golden-fronted woodpecker, Michael S. Husak, 41:441–442
Breeding species of wood-warblers (Parulinae) in Arkansas, two new, Paul G. Rodewald, 42:106–107
Breese, Dawn, see Tershy, Bernie R., and —
Brejda, John J., Soil changes following 18 years of protection from grazing in Arizona chaparral, 42:478–487
Brephidium exilis, 39:142
Brevoortia, 37:16
Brian, Nancy J., see Rowlands, Peter G., and —
Brickellia
californica, 43:54
grandiflora, 40:186
laciniata, 46:401
Brillhart, Dennis E., and Donald W. Kaufman, Spatial and seasonal variation in prey use by coyotes in north-central Kansas, 40:160–166
Briones Salas, Miguel A., First record of *Bauerus dubiaquercus* (Vespertilionidae) in Oaxaca, Mexico, 43:495–496
Bristow, Kirby D., see Germaine, Stephen S., —
Britten, Hugh B., and Peter F. Brussard, Genetic variability in pre- and post-bottleneck segments of the cui-ui (Osteichthys: *Chasmistes cujus*) population of Pyramid Lake, Nevada, 41:43–47
Bromelia, 43:276
Bromus, 40:87, 43:138, 44:1, 45:47, 45:67, 45:509, 46:286
canadensis, 43:212, 43:214
ciliatus, 46:285, 46:287, 46:289
diandrus, 40:394, 42:2
inermis, 41:192, 41:403, 41:404, 44:422
japonicus, 42:215, 42:253, 42:254
madritensis, 39:91, 40:360, 41:130, 42:359, 42:360, 44:368, 46:67
mollis, 40:394, 42:2
rubens, 38:208
tectorum, 39:186, 40:137, 40:288, 41:48, 46:285, 46:292
Brookhart, Jack O., and Sandra L. Brantley, Solpugids (Arachnida) of the Sevilleta National Wildlife Refuge, New Mexico, 45:443–449
Brooks, James E., see Echelle, Anthony A., —
Brosimum alicastrum, 37:427, 38:80, 38:403, 42:119, 44:202, 45:332
Brouder, Mark J., Effects of flooding on recruitment of roundtail chub, *Gila robusta*, in a southwestern river, 46:302–310
Brown, Bryan T., and Lawrence E. Stevens, Winter abundance, age structure, and distribution of bald eagles along the Colorado River, Arizona, 37:404–408
Brown, Bryan T., G. Scott Mills, Richard L. Glinski, and Stephen W. Hoffman, Density of nesting peregrine falcons in Grand Canyon National Park, Arizona, 37:188–193
Brown, David E., and Carlos A. López González, Notes on the occurrences of jaguars in Arizona and New Mexico, 45:537–542
Brown, J. Jed, see Glenn, Edward, —
Brown, John W., Harold A. Wier, and Denton Belk, New records of fairy shrimp (Crustacea: Anostraca) from Baja California, Mexico, 38:389–390
Brown, Raymond E., J. Howard Williamson, and Dan B. Boone, Swallow-tailed kite nesting in Texas: past and present, 42:103–105
Brucenas, 41:458
Bruchidae, 37:108, 37:111, 37:114, 38:385–387
Bruchus, 37:108
Brunner, Patrick C., see Douglas, Marlis R., —
Brush, Timothy, First nesting records of the black phoebe (*Sayornis nigricans*) in southernmost Texas, 46:237–238
Brush, Timothy, see Rupert, Jeffery R., and —
Brushpiles used by birds in northern California, characteristics of, W. Paul Gorenzel, Sonke A. Mastrup, and E. Lee Fitzhugh, 40:86–93
Brussard, Peter F., see Britten, Hugh B., and —
Bryocamptus minutus, 43:259
Bryophytes from the northern Mojave Desert, Lloyd R. Stark and Alan T. Whittemore, 45:226–232
Bryopsidales, 41:419–423
Bryum
argenteum, 45:228
capillare, 45:228
turbinatum, 45:228
Bubo virginianus, 37:388, 38:12, 39:208, 39:286–288, 41:352, 42:226, 43:235, 44:313
Bubulcus ibis, 37:388, 42:52–58, 42:225, 43:497
Bucculatrix, 41:143
flourensiae, 41:141, 41:142
Bucephala albeola, 37:400, 38:61
Buchloe dactyloides, 38:286, 39:2, 40:274, 42:252, 42:254, 42:352, 43:301, 44:101, 44:435–437, 44:442, 44:487, 45:213, 45:222, 45:389, 45:406, 45:411, 45:413, 45:414, 46:172, 46:207, 46:210
Buchnera americana, 45:435, 45:442
Bucida buceras, 45:340
Buckley, Anthony J., see Kopachena, Jeffrey G., —
Buddleia marrubiifolia, 41:425
Budorcas taxicolor, 40:147
Bufo, 37:204
alvarius, 43:158
americanus, 42:214
boreas, 39:326, 46:106–113
bufo, 46:110
calamita, 46:110, 46:111
canorus, 39:326
cognatus, 43:158, 43:443, 43:445
hemiophrys, 46:110
houstonensis, 46:110
marinus, 41:329, 41:330, 43:7, 46:105
marmoreus, 41:329, 41:330
mazatlanensis, 41:329, 41:330
nebulifer, 45:71
punctatus, 40:185, 40:187, 40:188, 43:7, 43:443, 43:445
speciosus, 43:8
valliceps, 40:122, 45:71–74
woodhousii, 43:498, 46:173, 46:174
Bufonidae, 43:7
Bulbil production in *Agave* (Agavaceae) and related genera, Stan R. Szarek, Barbara Driscoll, Cecile Shohet, and Steve Priebe, 41:465–469
Bulger, Angela G., and David R. Edds, Population structure and habitat use in Neosho madtom (*Noturus placidus*), 46:8–15
Bullock, Stephen H., see Martijena, Nora E., and —
Bulweria bulwerii, 42:305
Bumelia
celastrina, 43:276, 43:277
lactevirens, 43:276
lanuginosa, 44:407, 45:401, 45:406
Bundy, Jay M., and Kevin R. Bestgen,

Confirmation of daily increment deposition in otoliths of young razorback suckers, 46:34–40
Buprestidae, 37:107, 37:111, 44:508
Burge, Howard L., see Scoppettone, G. Gary, and —
Burge, Lurinda J., see Lish, James W., and —
Burke, Russell L., Diurnal aggregation of banded geckos under field conditions, 39:297–298
Burke, Thomas, see Mueller, Gordon, —
Burke, Tom, see Horn, Michael J., —
Burnham, Kenneth P., see Oyler-McCance, Sara J., —
Burns, Kevin J., and Shannon J. Hackett, Nest and nest-site characteristics of a western population of fox sparrow (*Passerella iliaca*), 38:277–279
Burrowing ecology of pocket gophers (Rodentia: Geomvidae) in Jalisco, Mexico, Heather R. Roberts, Kenneth T. Wilkins, Jorge Flores, and Alberto Thompson-Gorozpe, 42:323–327
Bursera, 44:58, 44:112
copallifera, 43:34
fagaroides, 37:429, 41:425, 43:34
hindsiana, 37:252–258, 37:282
microphylla, 37:252–258, 37:282, 41:258, 46:4, 46:5
morelensis, 37:429
simaruba, 37:253, 38:81, 39:281, 40:30, 43:101, 43:229, 43:276, 45:79, 45:340
Burseraceae, 37:252–258, 43:74, 44:508
Bursey, Charles R., and Stephen R. Goldberg, Diet of neonatal Yarrow's spiny lizard, *Sceloporus jarrovii jarrovii* (Phrynosomatidae), 38:381–383
Bursey, Charles R., see Goldberg, Stephen R., —
Bursey, Charles R., see McAllister, Chris T., —
Busby, William H., and William R. Brecheisen, Chorusing phenology and habitat associations of the crawfish frog, *Rana areolata* (Anura: Ranidae), in Kansas, 42:210–217
Busch, David E., Effects of fire on southwestern riparian plant community structure, 40:259–267
Bush, J. K., and O. W. Van Auken, Interactions between seedlings of an early and a late successional woody species, 40:379–387
Bush, J. K., and O. W. Van Auken, The effects of neighbors and grazing on the growth of *Helianthus paradoxus*, 42:416–422
Bush, J. K., see Van Auken, O. W., and —
Buteo
albicaudatus, 42:225, 42:228
albonotatus, 42:225
jamaicensis, 37:388, 37:390, 37:395, 37:397, 37:400, 38:61, 39:208, 39:375–377, 40:174–179, 41:198, 41:332, 42:225, 43:345, 44:319, 45:486, 46:363
lagopus, 43:345
lineatus, 42:104
lucasanus, 39:375
nitidus, 40:341
regalis, 37:386, 37:388–390, 37:395, 37:397, 42:228, 43:344, 44:485, 44:486
swainsoni, 42:225, 44:486
Buthidae, 37:110
Butler, Jack L., see Bich, Brian S., —
Butorides striatus, 37:400, 41:341, 42:225
Butterflies, 39:137–142
Byrrhidae, 37:107
Bythitidae, 44:168

Cabomba caroliniana, 37:196, 41:463
Cache and recovery behavior of wild pinyon jays in northern Arizona, Nancy G. Stotz and Russell P. Balda, 40:180–184
Caching of prey by a long-tailed weasel (*Mustela frenata*), an observation on, Erin Muths, 43:106
Cactaceae, 37:379–385, 38:309–315, 40:428–430, 41:436, 42:240–242, 42:441–445, 44:507, 45:105, 45:441, 46:6, 46:240, 46:261–271, 46:272–281
Caddisflies (Insecta: Trichoptera) of the Brazos River drainage in north-central Texas, Stephen R. Moulton, II, Daniel Petr, and Kenneth W. Stewart, 38:19–23
Cadrela odorata, 38:80
Caecidotea, 42:261
Caenidae, 38:267, 38:269, 39:61
Caenis
amica, 38:267, 38:268, 38:270
anceps, 39:60
bajaensis, 38:268
hilaris, 39:60
latipennis, 38:268, 39:60, 39:61
punctata, 38:268, 38:269
tardata, 38:268
youngi, 38:268
Caesalpina
coriaria, 37:114
jamesii, 38:227
Caesalpinaceae, 46:240
Caesalpinia, 46:240
crista, 41:436
gaumeri, 40:30, 45:79
mexicana, 43:42–44, 43:276
pulcherrima, 38:81
Caesar, B. L., see Yoder, C. K., —
Caillouet, Traci, see Ott, James R., —
Caiman, 40:156
Caire, W., see Zanowiak, D. J., —
Caire, William, see Shackelford, Jenni, and —
Caire, William, see Thies, Kathleen M., —
Cairina moschata, 41:444
Calamagrostis canadensis, 43:208, 43:210, 43:212, 43:214, 44:439
Calamintha arkansana, 37:369
Calamospiza
melanocorus, 44:486
melanocorys, 40:358, 42:227
Calamovilfa
gigantea, 44:431, 44:434, 45:408, 45:409, 45:412
longifolia, 40:129, 40:137, 44:434
Calaphelis nemesis, 39:142
Calathus opaculus, 45:460, 45:463
Calidris, 38:60
alba, 38:62
alpina, 37:87, 38:62
bairdii, 37:87
fuscicollis, 37:87
himantopus, 37:87
mauri, 37:87, 38:62, 38:63, 39:188, 43:57–61
melanotos, 37:87
minutilla, 37:87, 37:388, 37:397, 38:62, 38:63, 42:225
pusilla, 37:87, 39:188
California kangaroo rat, *Dipodomys californicus* (Rodentia: Heteromyidae), from Nevada, first record of the, Frederick B. Stangl, Jr., Gregory F. Birkenfeld, and Steven M. Shoen, 44:240–241
California mountain lion populations, trends in, K. Shawn Smallwood, 39:67–72
Call similarities among mixed species flock associates, Millicent Sigler Ficken, 45:154–158
Calleida viridis, 37:106
Calles cladotrichus, 37:109, 37:115
Calliandra
belizensis, 45:79
californica, 46:4, 46:5
eriophylla, 43:200, 46:346
Calliandria eriophylla, 43:39
Callibactis, 42:261
americanus, 38:257
coloradensis, 38:257
doddsi, 38:257
evergreenensis, 38:257
ferrugineus, 38:257
fluctuans, 38:257
fusca, 38:257
montanus, 38:257
nigritus, 38:257
pallidus, 38:257
pictus, 38:257

vitrea, 38:257
Callicarpa
acuminata, 43:276
americana, 45:405
Calligrapha dislocata, 37:108
Callipepla
californica, 37:400, 40:86, 41:403
gambelii, 38:46, 38:174–175, 44:85
squamata, 38:46, 40:357, 42:225, 44:486, 46:242
Callirhoe involucrata, 44:436
Callisaurus draconoides, 37:311–314
Callistopsyllus terinus, 46:95
Callophrys
apama, 44:375
sheridanii, 44:375
Calluna vulgaris, 46:299
Calocarpum zapota, 38:403
Calochortus, 42:378
Caloneis
amphisbaena, 46:203
bacillum, 37:150
hyalina, 37:151
lewisii, 46:203
ventricosa, 46:203
Calothorax lucifer, 37:388, 37:390
Calparyphus, 44:24
Calylophus
berlandieri, 46:296
serrulatus, 44:435, 45:409, 45:435, 45:441
Calypte
anna, 37:398, 37:400, 38:375
costae, 38:62, 38:374–377, 41:261, 46:262
Camallanus oxycephalus, 44:523, 44:524
Camarillo R., José L., see Campbell, Jonathan A., —
Camassia scilloides, 44:436
Cambarellus puer, 37:329
Cambaridae, 38:390–393, 42:261
Cambarus
aculabrum, 40:309
diogenes, 37:329, 42:214
Camelobaetidius, 38:252
cepheus, 38:257, 38:258
salinus, 38:258
warreni, 38:257, 38:258
Camelops, 37:61, 41:207, 42:313
Cameraria, 38:3, 38:4
Camissonia campestris, 42:91, 42:92
Camp, Richard J., Richard L. Knight, Heather A. L. Knight, Michael W. Sherman, and Jack Y. Kawashima, Food habits of nesting common ravens in the eastern Mojave Desert, 38:163–165
Campanotus, 38:292, 40:53
Campbell, B. G., see Miller, D. S., —
Campbell, Jonathan A., José L. Camarillo R., and Paul C. Ustach, Redescription and rediagnosis of *Tantilla shawi* (Serpentes: Colubridae) from the Sierra Madre Oriental of Mexico, 40:120–123
Campbell, Mariel L., see Frey, Jennifer K., and —
Campodeidae, 42:498, 42:499
Camponotus, 40:54, 46:397, 46:399
abdominalis, 44:458, 44:459
americanus, 45:120
pennsylvanicus, 44:281, 45:291
planatus, 41:436, 41:438
texanus, 38:138, 45:120, 45:121
vicinus, 37:431, 37:432, 44:281, 45:465
Campos, E., see Miller, D. S., —
Campos, Ernesto, see Rodríguez-Almaraz, Gabino A., —
Campostoma
anomalum, 37:142, 37:143, 37:262–264, 38:12, 41:302, 42:114, 42:117, 42:268, 42:273, 42:282, 43:340, 45:277, 45:278, 45:282, 45:285–287, 46:102
ornatum, 39:226, 39:233, 41:446, 41:448, 41:449
Campoy-Favela, Jose, and Adrian Quijada Mascareñas, Additional distribution records of fairy shrimps (Anostraca) from Sonora, Mexico, 38:85–86
Campsis radicans, 42:127
Campsomeris quadrimaculata, 39:339
Campylacantha olivacea, 37:364
Campylodiscus clypeus, 46:202, 46:203
Campylopterus
curvipennis, 43:231
hemileucurus, 43:231
Campylorhynchus brunneicapillus, 37:254, 37:388, 38:46, 38:73, 38:175, 38:282, 40:357, 42:226, 43:449–452
Canavalia rosea, 41:435
Cancino Z., Guadalupe, see Medellín, Rodrigo A., —
Candona
patzcuaro, 41:453
patzcuaro, 41:454
Canidae, 37:325, 42:494–495, 44:85, 46:121
Canis
familiaris, 37:393, 38:352, 40:415, 45:486, 46:384
latrans, 37:323, 37:393, 38:210, 39:91–95, 39:208, 39:305, 40:46, 40:101–104, 40:160–166, 40:288, 40:342–349, 40:360–365, 41:48–53, 41:81–82, 41:83–86, 41:388–394, 42:31, 42:94–99, 42:175, 42:494–495, 43:148, 43:300–312, 43:345, 43:469, 43:477, 44:97, 44:181, 44:202, 44:358, 44:367, 44:405–406, 45:204, 45:205, 45:335, 45:473, 45:474, 46:72, 46:121–126, 46:178, 46:179, 46:346
lupus, 40:156, 44:85
Cantharidae, 46:209
Canthocamptidae, 43:259
Canton, Steven P., see Chadwick, James W., —
Capillaria, 40:326, 43:477
contorta, 39:204, 39:205
patzcuarensis, 41:289
tenua, 40:114
Capniidae, 39:251
Capra
aegagrus, 43:163
caucasica, 40:147
cylindricornus, 40:147
falconeri, 40:147
hircus, 38:65, 39:92, 41:188
ibex, 40:147, 43:163
nubiana, 40:147
pyrenaica, 40:147
siberica, 40:147
walie, 40:147
Caprimulgidae, 38:62, 42:226, 44:508
Caprimulgus vociferus, 40:80, 40:99
Caprinae, 40:139–147
Capsicum
annum, 43:42
annuum, 43:275–277, 44:90, 44:92
Capturing armadillos, an alternative method for, David L. Bergman, Robert D. Bluett, and Alan R. Tipton, 40:414–416
Carabidae, 37:105, 37:106, 38:164, 40:162, 44:508, 45:459, 45:463, 46:209, 46:241
Caracal caracal, 40:153
Caracolus caracolla, 43:70–79
Carassius auratus, 42:282, 42:285, 46:103
Carbon isotope discrimination between seedlings and adults of southwestern desert perennial plants, differences in, Darren R. Sandquist, William S. F. Schuster, Lisa A. Donovan, Susan L. Phillips, and James R. Ehleringer, 38:212–217
Carcass selection in a high altitude population of the burying beetle, *Nicrophorus investigator* (Silphidae), Rosemary J. Smith and Bryce Heese, 40:50–55
Carcharhinidae, 38:220, 38:221
Cardamine cordifolia, 43:212, 43:213
Cardellina rubrifrons, 40:81
Cardenas, M., see Clemente, F., —
Cardenas, Manual, see Zwank, Phillip J., —
Cardenas, Manuel, see Holechek, Jerry L., —
Cardenas, Manuel, see Smith, Christine, —
Cardenas, Manuel, see Tarango, Luis A., —
Cardinal cardinalis, 42:227
Cardinalis
cardinalis, 40:357, 46:119

sinuatus, 38:46, 40:357, 42:227
Carduelis, 38:164
pinus, 40:80, 40:232, 42:141, 43:456
psaltria, 37:389, 42:141, 42:227, 43:456
tristis, 42:141, 43:456
Carduus nutans, 45:217
Carex, 37:368, 37:369, 38:10, 42:254, 44:429, 44:430, 44:432, 44:436, 44:439, 46:107, 46:377
aquatilis, 43:212, 43:214, 43:215
brevior, 40:137
chihuahuensis, 37:299
crus-corvi, 45:415
crus-corvi, 45:388
disperma, 43:212, 43:215
elrocharis, 40:137
filifolia, 40:137, 44:436
foenea, 43:210
geyeri, 43:209, 43:210, 43:214
gigantea, 45:404
glareosa, 40:389
grayi, 44:428
heliophila, 40:137
hyalinolepis, 44:440
hystericina, 40:137
lanuginosa, 40:137, 44:440, 44:441
lupulina, 45:400, 45:403–405, 45:411
meadii, 40:137
nebrascensis, 44:440, 44:441
occidentalis, 46:286
ouachitana, 45:388, 45:390, 45:402
pensylvanica, 45:388, 45:390, 45:402
planostachys, 45:105
pringlei, 42:224
rossii, 43:209, 43:211
squarrosa, 45:403, 45:404
Caribidae, 42:151
Carica papaya, 38:24
Carici, 40:388–391
Caridea, 39:63–66
Carlson, D. H., see Yoder, C. K., —
Carmona, Cynthia, see Carmona, Roberto, —
Carmona, Roberto, Cynthia Carmona, Alfredo Castillo-Guerrero, and Elvia M. Zamora-Orozco, Nesting records of American avocet and black-necked stilt in Baja California Sur, México, 45:523–524
Carmona, Roberto, see Fernández, Guillermo, —
Carnegea gigantea, 40:102
Carnegia gigantea, 37:372, 38:282, 38:283, 41:257, 41:258
Carnegiea, 39:178
gigantea, 38:346, 39:200–203, 41:315, 42:240, 42:241, 44:142, 44:311, 44:312, 46:262, 46:272–281
Carnivora, 40:227–228, 41:457–458, 42:494–495, 43:101–102
Carnivore fruit-use and seed dispersal of two selected plant species of the Edwards Plateau, Texas, Felipe Chavez-Ramirez and R. Douglas Slack, 38:141–145
Carollia
brevicauda, 38:81, 43:496, 45:344
perspicillata, 37:415, 37:418, 40:33, 40:35, 40:37, 45:344
subrufa, 39:281
Carpenter, Geoffrey C., Notochordal filament in young gar: morphological characteristics, 40:427–428
Carpenter, Mark, see Ostrand, Kenneth G., —
Carpinus caroliniana, 45:400, 45:402–405
Carpiodes
carpio, 37:262–264, 41:301, 41:302, 41:375, 42:268, 42:282, 45:278, 46:23, 46:24
cyprinus, 38:12, 42:282
Carpodacus
cassinii, 40:80
mexicanus, 37:254, 37:389, 37:390, 38:46, 38:63, 39:183, 40:358, 41:261, 42:141, 42:227, 43:456
Carpoides carpio, 37:180–184
Carpophilus lugubris, 46:209
Carrasco, Marc A., Variation in the dentition of kangaroo rats (genus *Dipodomys*) and its implications for the fossil record, 45:490–507
Carrasius auratus, 44:160
Carraway, Leslie N., see Harris, Arthur H., and —
Carter, Tracy S., see Leslie, David M., Jr., —
Carter, William A., see Pogue, Darrell W., and —
Carya, 39:378, 39:380, 42:20, 42:104, 42:177
alba, 45:400, 45:401, 45:405
aquatica, 45:404
cordiformis, 44:427–429, 45:387, 45:400, 45:401–404, 46:179
glabra, 45:401
illinoensis, 38:275, 42:356, 45:31, 45:401–404
illinoiensis, 42:266, 45:33
illinoinensis, 44:428, 44:429
laciniosa, 44:429
myristiciformis, 45:403, 45:404
ovata, 44:427, 45:401, 45:403
texana, 38:275, 44:428, 45:401, 45:402, 45:405, 45:407
tomentosa, 45:401, 45:402
Casas-Andreu, Gustavo, see Méndez-de la Cruz, Fausto R., —
Cashman, Jenny L., Matthew Peirce, and Paul R. Krausman, Diets of mountain lions in southwestern Arizona, 37:324–326
Cashner, Robert C., see Stewart, Bruce G., —
Casmerodius albus, 37:400, 38:61, 38:63, 41:341
Cassia, 45:296
bauhinioides, 39:344
bauhinoides, 38:43
fasciculata, 45:290
Castanopsis sempervirens, 38:278
Castela texana, 38:151, 43:276, 43:277
Caster, Paul T., Gary A. Heidt, and Karen D. Stone, Faunal use of nest boxes in the Ouachita Mountains of central Arkansas, 39:380–382
Castilleja, 43:138
coccinea, 37:369
lanata, 45:509
purpurea, 45:413
Castillo-Guerrero, Alfredo, see Carmona, Roberto, —
Castillo-Rivera, Manuel, Griselda Moreno, and Rodolfo Iniestra, Spatial, seasonal, and diel variation in abundance of the bay anchovy, *Anchoa mitchilli* (Teleostei: Engraulidae), in a tropical coastal lagoon of Mexico, 39:263–268
Castor
canadense, 40:107, 40:238
canadensis, 38:357–361, 41:91–93
Castro, Gerardo, see Rico-Gray, Victor, and —
Castro, Hugo J., see Ramírez B., Patricia, —
Castro-Campillo, Alondra, see Ramírez-Pulido, José, —
Castro-Franco, Rubén, and María Guadalupe Bustos Zagal, List of reptiles of Morelos, Mexico, and their distribution in relation to vegetation types, 39:171–175
Castro Franco, Rubén, see Fox, Stanley F., —
Casuarina, 44:113
Catagonus wagneri, 44:330
Catallagia
charlottensis, 46:94, 46:95
decipiens, 46:95
newevi, 46:94, 46:95
Catalpa speciosa, 45:4, 45:392
Catapodium rigidum, 45:103
Catastrophic decline of the mussel fauna of the Blue River, Oklahoma, Caryn C. Vaughn, 42:333–336
Catastrophic decrease in an isolated population of kit foxes, P. J. White, William H. Berry, Julie J. Eliason, and Michael T. Hanson, 45:204–211
Cathartes aura, 37:388, 37:395, 37:396, 38:61, 39:200–203, 42:104, 42:225, 44:486
Cathartidae, 38:61, 42:225
Catharus
guttatus, 40:80, 40:81, 42:140
ustulatus, 46:116
Catherpes mexicanus, 38:46, 40:357, 42:226, 43:457

Catinella avara, 38:295
Catoptrophorus semipalmatus, 37:87, 37:400, 38:60, 38:62, 38:63, 40:99, 42:225
Catostomidae, 37:9–15, 37:140, 40:316, 42:282, 42:283, 42:287
Catostomus
catostomus, 42:282
clarki, 37:122, 40:239, 40:240, 40:425–426, 46:303
commersoni, 38:12, 40:240, 41:385, 42:112, 42:114, 42:117, 42:282, 42:286–287, 44:148, 46:31, 46:316, 46:319
discobolus, 37:12, 38:397, 40:240, 44:384, 44:388, 44:391, 44:393, 46:158–170, 46:315, 46:316
insignis, 37:122, 40:240, 46:303
latipinnis, 37:9–15, 38:364, 38:397, 39:389, 40:239, 41:378, 41:379, 44:384, 44:388, 44:391, 44:393, 45:516, 45:520, 46:311–322
leopoldi, 39:227
occidentalis, 38:221, 44:297, 45:516, 45:520
plebeius, 37:121, 39:227, 39:233, 40:237–241, 44:42–48, 44:148–156, 46:159, 46:160, 46:168
santaanae, 40:240
tahoensis, 45:516, 45:520
Caudata, 37:315–316, 37:425–426, 38:36–42, 40:327–330, 41:62–64, 41:111–115, 43:88–91
Caudatella, 38:269
Caulanthus lasiophyllum, 46:5
Caulerpa, 41:419
mexicana, 41:420
Caulophyllum thalictroides, 38:91
Cavazos, Isabel, III, see Lonard, Robert I., —
Cavendishia, 46:403
Ceanothus, 38:290, 39:133, 41:229, 45:509
cordulatus, 38:278
cuneatus, 39:130, 39:134, 40:86
fendleri, 44:502, 46:195, 46:286
megacarpus, 39:258, 39:355
spinosus, 45:124–126
velutinus, 41:141
Ceballos, Gerardo, see List, Rurik, —
Cecropia, 37:428, 44:411
mexicana, 43:229
obtusifolia, 45:340
schreberiana, 37:417
Cediopsyllus inaequalis, 46:96
Cedrela odorata, 38:403, 45:79
Ceiba, 41:458, 44:112
aesculifolia, 45:79
parvifolia, 43:34
pentandra, 39:281, 43:101, 43:229, 45:340
Celastrina argiolus, 44:377, 44:378
Celtis, 37:55, 41:207, 41:209, 41:216, 42:356, 45:31, 46:191, 46:195
iguanaea, 43:276
laevigata, 38:70, 40:379–387, 41:194, 43:42, 43:190, 44:428, 44:535, 44:538, 45:400–404, 45:408, 45:410, 45:535, 46:248
occidentalis, 38:404, 40:138, 44:407, 44:427, 44:428, 44:436, 45:46, 45:403, 45:404, 45:408, 46:179
pallida, 37:376, 38:68, 38:228, 39:73, 40:355, 40:415, 43:42, 43:43, 43:196, 43:197, 43:200, 43:275–277, 44:536, 45:90, 46:401
reticulata, 41:214, 41:215, 44:11, 45:119, 45:268, 45:402, 45:406–408, 46:195, 46:401
tenuifolia, 44:430
Ceuchrus, 41:187, 46:241
insertus, 38:225, 38:226
longispinus, 40:134, 40:137
pauciflora, 45:408, 45:412
spinifex, 45:434, 45:435, 45:442
Centaurea solstitialis, 38:374, 45:1–5
Centaurium texense, 45:95, 45:102, 45:103
Centrarchidae, 40:316, 42:283, 42:283, 42:287, 45:271
Centrioptera muricata, 45:309
Centrocercus
minimus, 46:323–331
urophasianus, 46:323
Centrocestus formosanus, 44:222–226
Centronycteris maximiliani, 38:300
Centropomidae, 44:168
Centropomus undecimalis, 44:168
Centroptilum, 38:252
bifurcatum, 38:258
selanodorum, 38:258
Centrorhynchidae, 42:234
Centrorhynchus californicus, 46:228
Centurio senex, 39:281, 45:344
Centuroides, 37:110
Centurus
aurifrons, 40:153
striatus, 40:153
Cepaea nemoralis, 44:90, 44:91
Cephalanthus occidentalis, 44:432, 45:31, 45:388, 45:403, 45:405, 45:410, 45:411, 45:415, 45:418, 46:195, 46:199
Cephalodella
catellina, 45:369
forficula, 45:369
gibba, 45:369
hoodi, 45:369
Cephalogonimus
americanus, 45:362–365, 46:228
brevicirrus, 45:363
Ceraclea maculata, 38:21
Cerambycidae, 38:241–245, 44:508, 45:358, 46:209
Ceratophyllum demersum, 41:462–464
Ceratodon purpureus, 45:228
Ceratoides
lanata, 38:97, 43:167, 43:450, 45:185
latens, 38:97
Ceratonia siliquia, 37:114
Ceratophyllidae, 46:95
Ceratophyllum demersum, 38:169, 44:443, 45:418
Ceratophyllus, 43:358
celsus, 46:95
niger, 46:95
petrocheliodoni, 46:95
vison, 46:95
Ceratopogonidae, 37:170, 38:170, 39:206, 41:384, 42:151, 42:163, 42:166, 42:261, 44:155
Ceratopsyche oslari, 39:252
Ceratopteris thalictroides, 41:463
Cerceris
astarte, 43:252
rufopicta, 43:252
Cercidium, 37:281–284, 37:372, 38:206, 38:282, 42:94, 42:203–205, 42:207, 42:208, 43:234, 44:312, 46:82, 46:191, 46:279, 46:355
macrum, 43:42–44
microphyllum, 38:198, 38:346, 41:258, 41:315, 42:201, 42:202, 42:206, 42:240, 42:350, 43:235, 44:142, 44:314, 44:354, 44:543, 46:274, 46:346
Cercis canadensis, 38:30, 38:34, 44:407, 44:427, 44:430, 45:401, 45:402
Cercobrachys, 38:269
Cercocarpus, 38:290
betuloides, 39:258, 39:355, 40:186, 42:478, 42:479, 45:124, 45:509
bicfforus, 41:229
breviflorus, 44:491, 46:195
montanus, 43:454, 43:470, 44:382, 45:39, 45:40, 45:406
Cercomacra tyrannina, 43:231, 43:232
Cercyonis oetus, 44:376–378
Cereus giganteu, 39:178
Ceriodaphnia
lacustris, 40:322, 43:95
quadrangula, 40:323, 40:324
rigaudi, 40:323
Cernotina calcea, 38:21
Cerobasis, 39:83
Cerocarpus ledifolius, 38:96
Ceropales longipes, 43:253
Cerrophidion godmani, 44:481
Certhia, 45:157
americana, 40:80, 42:139, 45:154
Certhiidae, 44:508
Cervantes, Fernando A., Consuelo Lorenzo, Sergio T. Álvarez-Castañeda, Alejandro Rojas-Viloria, and Julieta Vargas, Chromosomal study of the insular San José brush rabbit (*Sylvilagus mansuetus*) from México, 41:455–457
Cervantes, Fernando A., see Gonzáles, Francisco X., and —
Cervantes, Fernando A., see Servín, Jorge, —
Cervantes, Fernando A., Sergio T. Alvarez-Castañeda, Bernardo Villa-

Ramírez, Consuelo Lorenzo, and Julieta Vargas. Natural history of the black jackrabbit (*Lepus insularis*) from Espíritu Santo Island, Baja California Sur, México, 41: 186–189
Cervus
axis, 45:473
dama, 45:473
elaphus, 40:344, 42:25, 43:345, 44: 133, 44:358
elephus, 39:269, 45:473
nippon, 46:119
Ceryle
alcyon, 37:358, 38:60, 38:62, 40:95, 42:226
torquata, 43:231
Ceuthophilus, 37:204, 42:499, 44:143, 45: 463
pinalensis, 44:142
Chace, Jameson F., Shawn T. McKinney, and Alexander Cruz. Nest-site characteristics and nesting success of the greater pewee in Arizona, 45:169–175
Chacón, Elías, see Servín, Jorge, —
Chadwick, James W., Steven P. Canton, Don J. Conklin, Jr., and Paul L. Winkle. Fish species composition in the central Platte River, Nebraska, 42:279–289
Chaerophyllum tantorii, 45:105
Chaetoceros muelleri, 46:202, 46:203
Chaetocnema elongulata, 37:108, 37:113
Chaetodipus, 37:383, 40:104–107, 43:53–55, 43:400, 43:480
arenarius, 40:104, 46:245
baileyi, 39:383, 40:104, 42:328, 43: 158, 46:245, 46:334
californicus, 40:225–226, 40:344, 42:3, 42:5, 42:6, 42:8, 42:10, 43:481, 43: 482, 45:206
fallax, 40:226, 42:328, 43:397, 43:399, 46:245
formosus, 40:104, 40:106, 40:226, 42: 328
hispidus, 37:57, 37:58, 37:61–63, 38: 285, 39:3, 39:5, 39:209, 40:104–106, 40:162, 41:55, 41:190, 44:101, 45:45, 45:48–51, 46:128
intermedius, 39:293, 40:104, 40:284, 42:328
nelsoni, 37:382, 37:383, 40:104, 40: 106
penicillatus, 40:104, 42:328, 43:158, 44:193–196
spinatus, 37:281, 39:99, 41:188, 41: 459
Chaetogaster diaphanus, 44:515, 44:516
Chaetopappa, 45:106
asteroides, 44:442
bellidifolia, 45:95, 45:96, 45:102–104
Chaetopappus
asterioides, 45:420
asteroides, 45:414
Chaetophractus, 39:378
vellerosus, 39:379
Chaetura vauxi, 38:62
Chamaea fasciata, 37:401
Chamaecrista
chamaecristoides, 41:435, 41:436
fasciculata, 44:265–267, 45:90, 45:92, 45:93, 45:434–437, 45:441
Chamaedorea
bartlingiana, 45:427
elegans, 45:374, 45:427
oblongata, 45:427
radicalis, 45:373–375, 45:421–430
tepejilote, 45:422
Chamaesaracha
coniodes, 45:105
sordida, 42:254
Chamaesyce
serpens, 42:444
serpyllifolia, 45:458
Chamerion danielsii, 43:210, 43:211
Channell, Rob, see Mares, Michael A., —
Chaplin, Stephen J., see Bergmann, David J., and —
Chapman, Brian R., see Creighton, J. Curtis, —
Chara, 37:206, 37:208, 37:337–342, 38: 169, 42:266, 46:313
Characidae, 40:316, 44:168
Charadriidae, 38:61, 42:225
Charadrius
melodus, 42:279
montanus, 37:388, 39:298–300, 44: 485, 44:486
semipalmatus, 37:87
vociferus, 37:388, 37:397, 37:400, 38: 60, 38:61, 38:63, 40:94, 40:97, 40: 357, 42:225, 44:486
Charidryas nycteis, 44:377, 44:378
Chart, Thomas E., and Eric P. Bergersen, Impact of mainstream impoundment on the distribution and movements of the resident flannelmouth sucker (Catostomidae: *Catostomus latipinnis*) population in the White River, Colorado, 37:9–15
Chasmanthium
latifolium, 44:429, 45:400, 45:402–404, 45:408, 45:410
sessiliflorum, 45:400
Chasmistes cujus, 40:240, 41:43–47
Chauliognathus
basalis, 43:62–69
deceptus, 43:62–69
pennsylvanicus, 43:63, 46:209
Chavez-Ramirez, Felipe, and R. Douglas Slack, Carnivore fruit-use and seed dispersal of two selected plant species of the Edwards Plateau, Texas, 38:141–145
Chelonia mydas, 42:38
Chelydra serpentina, 43:9
Chelydridae, 43:9
Chen
caerulescens, 38:61, 40:68–75, 42:49, 42:68, 42:454
rossi, 42:68
rossii, 37:400
Chen, Wei, see Trauth, Stanley E., —
Chenopodiaceae, 37:22–27, 41:207, 41: 209, 41:214, 41:215, 42:490, 45: 441, 46:240
Chenopodium, 38:226, 46:240
berlandieri, 44:439
leptophyllum, 45:414
watsoni, 38:208
Cheriodes californica, 45:309
Chertophaga viridifasciata, 37:368
Cheumatopsyche, 44:24
arizonensis, 44:23
campyla, 38:19, 38:21
lasia, 38:19, 38:21
Chilomeniscus cinctus, 43:413
Chilometopon
abnorme, 45:309
brachystomum, 45:309
pallidum, 45:309
Chilopsis, 46:191
linearis, 42:356, 43:54, 43:450, 44:343, 44:345, 45:338
Chimarra, 44:24
obscura, 38:19, 38:21
Chionactis occipitalis, 41:185
Chionanthus virginicus, 45:402
Chirederma salvini, 38:300
Chirocnectes minimus, 38:402–404
Chironomidae, 37:168–171, 37:173, 37: 268–273, 38:158, 38:170, 39:206, 41:62, 41:63, 41:70–72, 41:384, 41: 385, 42:151, 42:162, 42:163, 42: 166, 42:261, 44:155, 46:24, 46:27–29
Chironomus, 42:162
Chiroptera, 37:420–421, 38:24–29, 38: 73–76, 38:111–118, 39:211–212, 42:99–101, 43:484–490, 44:343–347, 44:404–405, 44:542–543, 45: 338–340, 45:345–347, 46:358–362, 46:380–383
Chiroptevotriton, 43:89
arboreus, 40:122
multidentatus, 40:122
nasalis, 41:111
Chirostoma
attenuatum, 41:288–292
estor, 41:289
jordani, 41:288
lucius, 39:109
Chiszar, David, see Lemos-Espinal, Julio A., —
Chiszar, David, see Smith, Hobart M., —
Chitrella, 41:145, 41:147
Chitrellina chiricahuae, 41:145–148
Chlaenius, 45:463

Chlamydotheca texasiensis, 41:451
Chloealtis conspersa, 37:364–366
Chloris
cucullata, 45:90
verticillata, 42:254, 45:419
virgata, 43:450
Chloroceryle
aenea, 43:231
amazona, 43:231
americana, 42:226, 43:231
Chloroleucon
ebano, 38:385–387
mangueuse, 45:79
Chloroperlidae, 39:251
Chlorophyta, 41:419–423
Choate, Jerry R., see Haner, Thomas W., —
Choate, Jerry R., see Jackson, Victoria L., and —
Choate, Jerry R., see Pitts, Richard M. —
Choeronycteris mexicana, 37:420, 37:429
Choleva americana, 37:106, 37:111, 37:114
Cholla, 46:245
Choloepus hoffmanni, 44:410–414
Chondestes grammacus, 37:73, 37:389, 37:390, 37:399, 39:22, 40:358, 42:140, 42:227, 43:456, 44:486, 44:487
Chordeiles
acutipennis, 38:46, 38:62, 40:357, 42:226, 43:235, 44:313
minor, 39:183, 44:486
Chorizanthe brevicornu, 46:4, 46:5
Chorotelpes
albiannulata, 38:262
inornata, 38:262, 38:269
mexicanus, 38:263
Chortophaga viridifasciata, 37:364
Chorusing phenology and habitat associations of the crawfish frog, *Rana areolata* (Anura: Ranidae), in Kansas, William H. Busby and William R. Brecheisen, 42:210–217
Chriodorus atherinoides, 44:168
Chromosomal NOR karyotypes and genome sizes in *Dionda* (Osteichthyes: Cyprinidae) from Texas and New Mexico, John R. Gold, Yucheng Li, Matt C. Birkner, and John D. Jenkin, 37:217–222
Chromosomal study of the insular San José brush rabbit (*Sylvilagus mansuetus*) from México, Fernando A. Cervantes, Consuelo Lorenzo, Sergio T. Álvarez-Castañeda, Alejandro Rojas-Viloria, and Julieta Vargas, 41:455–457
Chromosomal variation in Mexican populations of the genus *Dendroctonus* (Coleoptera: Scolytidae), Yolanda Salinas-Moreno, Gerardo Zuñiga-Bermudez, and Ramon Cisneros-Barrios, 39:283–286
Chrotopterus auritus, 38:81, 40:33–37, 44:327
Chrysactinia mexicana, 43:197, 43:200
Chrysemys picta, 46:233
Chrysolina, 37:108
Chrysomelidae, 37:108, 37:113, 37:170, 37:325, 38:3, 44:508, 45:464, 46:241
Chrysothamnus, 37:114, 39:299, 43:138, 46:195
greenei, 39:53
nauseosus, 38:94, 38:97, 38:212, 40:288, 41:49, 42:138, 43:63, 43:470, 44:431, 45:350, 46:210
viscidiflorus, 46:184
Chuquiraga arnica, 42:490, 42:492
Church, Kevin E., see Robel, Robert J., —
Chydoridae, 40:323
Chydorus sphaericus, 40:323, 40:324
Cicadas (*Diceroprocta apache*) both a "keystone" and a "critical-link" species in lower Colorado River riparian communities?, are, Douglas C. Andersen, 39:26–33
Cicadellidae, 41:62, 41:63, 45:293, 45:463, 46:241
Cicadidae, 37:109, 38:164, 39:26, 40:162, 41:136–139, 46:241
Ciccaba virgata, 43:231
Cicero, Carla, and Ned K. Johnson, Genetic differentiation between populations of Hutton's vireo (Aves: Vireonidae) in disjunct allopatry, 37:344–348
Cichilidae, 44:170
Cichlasoma
beani, 46:22
carpintis, 46:22
cyanoguttatum, 37:180–184, 37:262–265, 42:265, 42:266, 42:268, 42:269, 42:271, 42:272, 42:275, 46:154, 46:155, 46:217
labridens, 46:22
minckleyi, 46:16–22
robertsoni, 44:168
salvini, 44:168
synspilum, 44:168
urophthalmus, 44:168, 44:170, 44:224
Cichlidae, 40:316, 44:168, 46:20
Cichlosoma cyanoguttatum, 39:226
Cicuta maculata, 44:436, 45:416
Cinna
arundinacea, 45:404
latifolia, 43:205, 43:215
Cinygma
integrum, 39:58
mimus, 38:259
Cinygmula
mimus, 38:259, 38:260, 39:251
par, 38:259, 38:260
ramaleyi, 38:260
Cionella, 38:297
lubrica, 38:294, 38:295, 42:471–473, 42:475, 42:476
Circaea quadrisulcata, 46:116
Circidium, 39:270
Circus cyaneus, 37:396, 38:60, 38:61, 38:64, 41:332, 44:486
Cirsium, 44:349
arvense, 44:382
ochrocentrum, 43:450
wheeleri, 46:286
Cisneros, Emma, see Bonilla, Carlos, —
Cisneros-Barrios, Ramon, see Salinas-Moreno, Yolanda, —
Cissus incisa, 46:402
Cistanche phelipaea, 40:397
Cistancho luteae, 40:393, 40:395, 40:403
Cistothorus palustris, 38:62, 42:224, 42:226
Citharacanthus
crinirufus, 45:128
livingstoni, 45:128, 45:129, 45:132
longipes, 45:128, 45:132
meermani, 45:128–132
sclerothrix, 45:128
spinicrus, 45:128
Citharexylum berlandieri, 43:275–277
Citharichthys spilopterus, 40:297–300
Citrobacter, 38:74
Citrus, 39:84
Cladium, 42:224
jamaicense, 45:80
Cladocera, 43:95–96
Cladocerans (Brachiopoda: Anomopoda; Ctenopoda) of the Nuevo Leon state, Mexico, Gabino A. Rodriguez-Almaraz and Antonio Leija-Tristan, 40:322–324
Cladophora, 38:159, 42:266, 45:269
glomerata, 37:148–156, 43:81, 44:208
Cladrastis lutea, 45:400
Claravis pretiosa, 43:231
Clark, Brenda S., see Clark, Bryon K., —
Clark, Brenda S., William L. Puckette, Bryon K. Clark, and David M. Leslie, Jr., Status of the Ozark big-eared bat (*Corynorhinus townsendii ingens*) in Oklahoma, 1957 to 1995, 42:20–24
Clark, Bryon K., Brenda S. Clark, Lacrecia A. Johnson, and Michael T. Haynie, Influence of roads on movements of small mammals, 46:338–344
Clark, Bryon K., Brenda S. Clark, Walter E. Munsterman, and Todd R. Homerding, Differential use of roadside fencerows and contiguous pastures by small mammals in southeastern Oklahoma, 41:54–59
Clark, Bryon K., see Clark, Brenda S., —
Clark, Bryon K., see Kaufman, Donald W., —

Clark, Daniel E., see Gehrt, Stanley D., —
Clark, Donald R., Jr., Amanda Lollar, and Deborah F. Cowman, Dead and dying Brazilian free-tailed bats (*Tadarida brasiliensis*) from Texas: rabies and pesticide exposure, 41: 275–278
Clark, Donald R., Jr., and Grey W. Pendleton, Texas rat snake (*Elaphe obsoleta lindheimeri*) eggs and hatchlings from a communal nest, 40: 203–207
Clark, William H., see Sankey, Julia T., —
Clarkson, Robert W., see Robinson, Anthony T., —
Clason, Dennis L., see Zwank, Phillip J., —
Classification of the Mexican biogeographic provinces: a parsimony analysis of endemicity based on plant, insect, and bird taxa, preliminary, Juan J. Morrone, David Espinosa Organista, Claudia Aguilar Zúñiga, and Jorge Llorente Bousquets, 44:507–514
Classification of the natural vegetation of Kansas, a, Chris L. Lauver, Kelly Kindscher, Don Faber-Langendoen, and Rick Schneider, 44:421–443
Claytonia
lanceolata, 37:223–230
virginica, 37:226
Clelia clelia, 42:331
Clematis
drummondii, 46:402
fremontii, 44:433
Clemente, F., R. Valdez, J. L. Holechek, P. J. Zwank, and M. Cardenas, Pronghorn home range relative to permanent water in southern New Mexico, 40:38–41
Clemente M., Apamar, see Medellín, Rodrigo A., —
Clemmys, 46:233
marmorata, 37:319–324
Cleonus, 37:109
Cleridae, 37:107, 37:111, 44:508
Clethra
mexicana, 40:122
pringlei, 45:425
Clethrionomys, 39:208
glareolus, 43:345
Cletocamptus
albuquerquensis, 43:259, 43:260
deitersi, 43:259, 43:260
Cletodidae, 43:259
Cliff swallow (*Petrochelidon pyrrhonata*) nests in West Texas by cave myotis (*Myotis velifer*), utilization of, Christopher M. Ritzi, 44:414–415
Climacium americanum, 45:228
Climatic factors and the distribution of woodland vegetation in the Southwest, Peter G. Rowlands, 38:185–197
Clingfish, *Gobiesox fluviatilis* (Gobiesociformes: Gobiesocidae), in the Río Chapalagana, México: confirmation of a historical record, occurrence of the, Ana Fabiola Guzmán, Héctor Espinosa Pérez, and Robert Rush Miller, 46:96–98
Clinidae, 38:220, 38:221
Clinocera, 44:24
Clinostomum, 46:223–225, 46:228, 46: 229
complanatum, 40:114
Clitellata, 44:514–518
Clivina impressifrons, 46:209
Cloacotaenia megalops, 39:205, 40:325–327
Cloeon ingens, 38:259
Clonal diversity patterns in marginal populations of the geographically restricted shrub *Neviusia alabamensis* (Rosaceae), Kenneth J. Freiley, 39:34–39
Clubionidae, 45:462
Clupea pallasi, 38:219, 38:221
Clupeidae, 38:221, 40:316, 42:282, 42: 287, 44:168
Cnemidophorous, 40:99
Cnemidophorus, 40:185, 40:190, 41:64–67, 45:527–533
communis, 38:179
costatus, 39:172
deppei, 39:172, 39:174
dixoni, 42:232, 42:233
exsanguis, 37:82–84, 43:443, 43:445, 43:446
exsanquis, 43:441
flagellicaudus, 42:232, 42:233
grahamii, 39:236, 39:237
gularis, 39:174, 39:237, 39:238, 41:64–67, 42:232, 42:233, 43:9, 45:527, 45:529–532
guttatus, 39:172
inornatus, 37:84, 43:445, 43:446, 45: 376, 45:377, 45:527, 45:529–532, 45:555, 45:557, 46:134
laredoensis, 39:45, 39:49, 41:64, 41:65
lineatissimus, 39:174
marmoratus, 39:237, 39:238, 43:441, 43:443, 43:445, 43:446, 45:527, 45: 532
neomexicanus, 37:82–86, 42:233, 43: 445, 43:446
neotesselatus, 45:527, 45:532
sacki, 39:172, 39:173, 39:314
scalaris, 45:527, 45:530, 45:531
septemvittatus, 45:376, 45:377, 45:527, 45:530–532, 45:555, 45:557, 46:134
sexlineatus, 37:82–86, 38:378, 39:45, 39:49, 39:174, 39:235–240, 40:113, 41:64, 42:35, 43:10, 45:527, 46:173, 46:174
sonorae, 42:232, 42:233
sonorensis, 40:187, 40:188
tesselatus, 37:82–86, 38:377–381, 39: 235–240, 41:66, 43:443, 43:445, 45: 527, 45:529–532
tigris, 41:66, 42:233, 43:158, 45:527, 45:529–532, 46:222
uniparens, 41:65, 43:443, 43:445
velox, 39:55, 39:56, 41:65
Cnemodinus testaceus, 45:309
Cnidoscolus
multilobus, 43:276
texanus, 45:420
Cnidosculus tehuacanensis, 43:39
Coahuilix landeyi, 43:283
Coarse woody debris by Ephemeroptera in three Ozark streams of Arkansas, Edward C. Phillips and Raj V. Kilambi, utilization of, 39:58–62
Cobb, Vincent A., Effects of temperature on escape behavior in the cribellate spider, *Oecobius annulipes* (Araneae, Oecobiidae), 39:391–394
Coccidia, 43:477
Coccidium higeminum, 43:477
Coccinellidae, 37:108, 37:113, 37:170, 46:209, 46:241
Cocconeis
pediculus, 37:148–150, 37:152–154
placentula, 37:148, 37:150, 46:203
Coccothraustes vespertinus, 40:97
Cocculus carolinus, 45:404
Coccyzus americanus, 39:32, 42:139, 44: 538–539, 45:535–536
Cochlearia officinalis, 40:389
Cochlicopidae, 38:295
Cochlospermum vitifolium, 38:81
Cochran, Betty G., see McAllister, Chris T., —
Cochran, Philip A., see Lyons, John, —
Coelorachis cylindrica, 45:412
Coenagrionidae, 37:170, 37:176, 39: 371, 44:25
Coexistence of native ants with the red imported fire ant, *Solenopsis invicta*, Ken R. Helms and S. Bradleigh Vinson, 46:396–400
Coffea arabica, 43:495–496
Cokendolpher, James C., William P. MacKay, and Martin H. Muma, Seasonal population phenology and habitat preferences of montane harvestmen (Arachnida: Opiliones) from southwestern New Mexico, 38:236–240
Colaptes auratus, 37:254, 37:358, 37:388, 38:62, 40:88, 41:261, 41:442, 42: 140, 42:226, 43:456, 45:32
Coldren, Cade L., see Coldren, Mary K., —
Coldren, Mary K., Cade L. Coldren,

Kimberly G. Smith, and Sterling S. Lacy, First Neotropic cormorant, *Phalacrocorax brasilianus* (Aves: Phalacrocoracidae), breeding record for Arkansas, 43:496–498
Coleogyne ramosissima, 38:212–216, 40:282, 40:285, 40:367, 43:48, 43:376–380, 43:397, 43:408, 43:409
Coleonyx
brevis, 43:443, 43:445
elegans, 39:172
variegatus, 39:297–298
Coleoptera, 38:119–126, 38:241–245, 38:385–387, 39:283–286, 42:352–355, 42:496–497, 44:379–382, 45:306–312
Colias eurytheme, 39:142, 44:376–378
Colibri delphinae, 43:231
Colinus virginianus, 39:73–77, 42:38, 42:59–67, 45:90, 46:239–243
Collection of age-0 razorback suckers (*Xyrauchen texanus*) in the lower Green River, Utah, F. Brandt Gutermuth, Leo D. Lentsch, and Kevin R. Bestgen, 39:389–391
Colletidae, 42:89
Colliurus pennsylvanicus, 46:209
Colocasia, 42:432
Coloegyne ramossissima, 45:185
Colony dynamics in *Pogonomyrmex occidentalis*, the western harvester ant, in western Nebraska, fifteen years of, Kathleen H. Keeler, 38:286–289
Colony size fluctuation of *Anoura geoffroyi* (Chiroptera: Phyllostomidae) and temperature characterization in a Mexican cave, José Ramírez-Pulido, Cristóbal Galindo-Galindo, Alondra Castro-Campillo, Arturo Salame-Méndez, and Miguel Angel Armella, 46:358–362
Color pattern variants in the Trans-Pecos copperhead, Michael R. Hannie and Alec Knight, 43:499–500
Color preference of the island endemic lizard *Uta palmeri* in relation to rat eradication campaigns, Bernie R. Tershy and Dawn Breese, 39:295–297
Colorado mayflies (Ephemeroptera): an annotated inventory, W. P. McCafferty, Richard S. Durfee, and Boris C. Kondratieff, 38:252–274
Colorado squawfish in a main stem impoundment on the White River, Colorado, evaluation of an introduction of, Melissa A. Trammell, Eric P. Bergersen, and Patrick J. Martinez, 38:362–369
Coluber constrictor, 41:183, 42:233, 43:10, 46:173, 46:174
Colubridae, 37:303–307, 40:119–120, 40:120–123, 40:123–124, 40:334–335, 41:182–186, 42:232–236, 42:330, 43:10, 43:412–415, 45:141–153, 46:113–114, 46:387–391
Colubrina
glabra, 37:282, 37:283
texana, 45:90
Columba
faciata, 39:377
fasciata, 37:395, 37:398, 37:400, 40:80, 40:81, 42:226
livia, 37:290, 42:226, 44:486
Columbidae, 42:226
Columbina
inca, 37:388, 40:357, 42:226
passerina, 40:357
Columella
bicuspidata, 45:368
obtusa, 45:368
Columellidae, 45:368
Colydiidae, 37:108
Comarostaphyllis polifolia, 43:39
Combretaceae, 44:508
Commelina, 46:240
erecta, 45:89, 45:92, 45:93, 45:434, 45:435, 45:441, 46:296
Commelinaceae, 45:441, 46:240
Comparative autecology of endemic, globally-rare and geographically-widespread, common plant species: three case studies, the, Jerry M. Baskin, Kristin M. Snyder, Jeffrey L. Walck, and Carol C. Baskin, 42:384–399
Compean-Jimenez, Guillermo A., see Ruiz-Campos, Gorgonio, —
Competition between a C_3 grass and a woody legume with differential herbivory, changes in, O. W. Van Auken, 39:114–121
Compositae, 37:92, 41:435, 42:416–422, 43:42, 43:313–320, 46:4, 46:6, 46:240
Comus stolonifera, 46:195
Conandia compacta, 45:228
Concentration of small Canada geese in an urban setting at Lubbock, Texas, a, James D. Ray and Harvey W. Miller, 42:68–73
Condalia, 37:387, 40:102
globosa, 37:282
hookeri, 41:220, 43:42, 43:200, 43:275–277, 45:90
mexicana, 41:427
obovata, 37:95, 38:68
spathulata, 46:401
warnockii, 45:172
Condylidium, 46:403
Conepatus
chinga, 44:328
semistriatus, 37:428
tropicalis, 37:428
Confirmation of *Branchinecta paludosa* (Crustacea, Anostraca) in Utah, Sharon Maynard Stern and Denton Belk, 44:212–213
Confirmation of daily increment deposition in otoliths of young razorback suckers, Jay M. Bundy and Kevin R. Bestgen, 46:34–40
Coniontis, 37:108
Coniophanes
imperialis, 40:122
lateritius, 39:172
Conklin, Don J., Jr., see Chadwick, James W., —
Conocarpus erectus, 45:79
Conochilidae, 45:369
Conochilus
dossuarius, 45:369
natans, 45:369
Conoclinium betonicifolium, 45:434, 45:435, 45:437, 45:441
Conomyrma, 42:230, 42:231
bicolor, 42:229
flava, 37:431, 37:432
insana, 37:431, 37:432, 42:229, 44:281
Cononotus macer, 37:108
Conophis vittatus, 39:172, 42:331
Conopholis
americana, 38:79
mexicana, 38:78, 38:79
Conopsis biserialis, 39:172
Conotelus stenoides, 37:108
Conotrachelus, 37:115
invadens, 37:109, 37:113
Conservation and status of Gila trout, *Oncorhynchus gilae*, David L. Propst, Jerome A. Stefferud, and Paul R. Turner, 37:117–125
Constitution, Southwestern Association of Naturalists, 40:435–441
Consumption of three garden plants in West Texas by *Helix aspersa*, Mary Roberson and Daryl L. Moorhead, 44:90–93
Conta, Debra M., see Hubbard, Tani, —
Contopus
pertinax, 45:169–175
sordidulus, 38:46, 39:377, 40:80, 40:99, 42:140, 45:173
virens, 43:456
Contreras-Arquieta, Alberto, New records of the snail *Melanoides tuberculata* (Müller, 1774) (Gastropoda: Thiaridae) in the Cuatro Cienegas Basin, and its distribution in the state of Coahuila, Mexico, 43:283–286
Contreras-Balderas, Armando J., Juan A. Garcia-Salas, and Jose I. Gonzalez-Rojas, Seasonal and ecological distribution of birds from Cuatrocienegas, Coahuila, Mexico, 42:224–228
Contreras-Balderas, Armando J., see Garcia-Salas, Juan A., —

Contreras-Balderas, Armando Jesus, Avifauna de dos asociaciones vegetales en el municipio de Galeana, Nuevo León, Mexico, 37: 386–391
Contreras-Balderas, Salvador, see Echelle, Anthony A., —
Convolvulaceae, 41:435, 45:441, 46:402
Convolvulus arvensis, 43:345
Conyza canadensis, 40:137, 45:217, 45: 417, 45:419, 45:458
Cook, Jerry L., and Scott J. Herrmann, New record of *Prostoma graecense* (Nemertea: Hoplonemertea) from southern Colorado, with observations on its feeding behavior and habitat, 42:162–169
Coonan, Timothy J., see Garcelon, David K., —
Cooper, William E., Jr., and Johnny Arnett, Absence of discriminatory tongue-flicking responses to plant chemicals by helodermatid lizards, 46:405–409
Cooperia pedunculata, 45:105
Copaeodes aurantiaca, 39:142
Copemys, 38:116
Cophosaurus texanus, 40:193–202, 43: 445, 43:446
Coptodisca, 38:3
Copulatory behavior of white-nosed coatis, Christine C. Hass and Jason F. Roback, 45:329–331
Coragyps atratus, 39:200–203
Corallus
annulatus, 42:347–349
enydris, 37:426
Corbicula, 38:294
fluminea, 41:60–61, 41:325, 41:327
Corbiculidae, 38:294, 41:60–61
Cordes, James E., see Paulissen, Mark A., —
Cordes, James E., see Walker, James M., —
Cordes, James E., see Walker, James M., Sr., —
Cordia
boisieri, 43:42
boissieri, 37:197–199, 43:276, 43:277
dentata, 38:24, 38:27
gregii, 41:427
Corduliidae, 37:170
Cordylanthus maritimus, 40:400
Coregonus peled, 40:243
Coreidae, 37:109
Coreopsis
grandiflora, 44:435
lanceolata, 37:368, 37:369
nuecensis, 45:92, 45:93
tinctoria, 44:440, 45:415, 45:419, 45: 420
Corixidae, 37:170, 37:270, 38:158, 38: 170, 42:151, 42:261, 43:80, 43:81
Corn, Paul Stephen, see Muths, Erin, —
Cornus, 41:55, 46:339
amomum, 45:404, 45:410, 45:411
drummondii, 38:30, 38:31, 38:34, 45: 407, 45:409, 45:410
florida, 37:369, 44:427, 45:400, 45:401
foemina, 45:405
stolonifera, 46:195
Coronado-Magdaleno, Mario A., see Rodríguez-Almaraz, Gabino A., —
Correlates of species composition of grasshopper (Orthoptera: Acrididae) communities on Ozark cedar glades, David J. Bergmann and Stephen J. Chaplin, 37:362–371
Correlations between fecal nitrogen and diet composition in free-ranging black-tailed deer, Brian N. Massey, Floyd W. Weckerly, Charles E. Vaughn, and Dale R. McCullough, 39:165–170
Corrodopsylla curvata, 46:95
Corse, Michelle C., see Kneeland, Mary C., —
Corse, Michelle C., see Koprowski, John L., and —
Cortés-Calva, Patricia, see Alvarez-Castañeda, Sergio Ticul, and —
Corucia zebrata, 46:406
Corvidae, 38:62, 40:232–233, 42:226, 44:508
Corvus, 37:388
assiffragus, 43:497
brachyrhynchos, 37:398, 37:400, 44:486
corax, 37:199–202, 37:398, 38:62, 38: 163–165, 40:357, 41:270, 42:226, 45:173
cryptoleucus, 40:357, 44:486
Corydalidae, 37:169, 37:170, 42:151, 44:24
Corydalus, 44:24
cornutus, 41:70–72
Corylophidae, 45:464
Corynebacterium
aquaticum, 38:74, 38:75
pseudodiphtheriticum, 38:74, 38:75
Corynorhinus
mexicanus, 46:358–360
townsendii, 42:20–24, 42:177–181, 44: 399, 44:495, 44:497, 44:502–504, 44:506, 45:350, 45:524–527, 46:380
Corynosoma, 40:326
constrictum, 39:205
Coryphantha sulcata, 42:444
Corythuca, 41:143
morrilli, 41:141, 41:142
Corytophanes, 45:358–361
cristatus, 45:358–361
hernandezii, 45:358–361
percarinatus, 45:358–361
Corytophanidae, 43:6, 45:358–361
Coscinodiscaceae, 37:150
Coscinodon calyptratus, 45:228
Cosmarcticoides
dukae, 40:114, 40:329
variabilis, 40:111–113, 40:328, 40:329, 45:362–365, 46:228, 46:229
variablis, 40:114
Cota-Serrano, Patricia, see Ruiz-Campos, Gorgonio, y —
Cotera, Mauricio, see Maldonado, Jesús E., —
Cotinus obovatus, 45:400
Cottidae, 38:221
Cottus
carolinae, 40:312, 41:69–73
gulosus, 44:297
Coturnix
coturnix, 39:146, 39:196, 46:299
japonica, 41:277
Cotylurus flabelliformis, 39:204
Coursetia microphylla, 46:195
Coutaportla ghiesbregthiana, 43:39
Covell, D. F., see Miller, D. S., —
Cowania, 43:378
mexicana, 38:96
Cowman, Deborah F., see Clark, Donald R., Jr., —
Cox, George W., and Jodee Hunt, Pocket gopher herbivory and mortality of ocotillo on stream terrace, bajada, and hillside sites in the Colorado Desert, southern California, 39:364–370
Coxendix, 37:106
Coyote, *Canis latrans* (Carnivora: Canidae), in the Yucatan Peninsula, Mexico, first record of the, Javier Sosa-Escalante, Silvia Hernández, Augusto Segovia, and Víctor Sánchez-Cordero, 42:494–495
Coyote morphometric characteristics and mass dynamics in the San Joaquin Valley, California, Brian L. Cypher, 40:360–365
Coyote visitations to experimentally-placed deer carrion, Eric W. Hein and William F. Andelt, 41:48–53
Crabro tumidus, 43:251
Cracidae, 44:508
Craig, Gerald R., see Kralovec, Mary L., —
Crangonyx, 42:261
Craniotus pubescens, 45:309
Craseonycteridae, 38:112
Crassicrus lamanai, 44:519, 44:520, 45: 132
Crataegus, 41:207, 41:208, 41:212, 41: 214, 41:216, 42:156, 43:454
crus-galli, 45:407, 45:410
marshallii, 45:400, 45:403–405
mollis, 45:403, 45:410
viridis, 45:401, 45:403, 45:404, 45:410
Crataegus mexicana, 40:122
Craticula
accomoda, 46:203
cuspidata, 46:203

halophila, 46:203
Crataegomys, 37:232, 39:278, 43:54
castanops, 45:250, 45:251
famosus, 45:249
goldmani, 45:250, 45:251
gymnurus, 42:323–326, 44:178, 44:179, 45:249–251
merriami, 42:323, 42:325, 42:326, 44:178, 44:179
neglectus, 45:249–252
tylorhinus, 42:323–326, 44:178, 44:179, 45:249–251
zinseri, 45:249
Cratoneuron filicinum, 45:228
Crawford, Clifford S., see Ellis, Lisa M., —
Crawford, Clifford S., see Yong, Tze-Hei, and —
Creef, Edward D., see Robinson, Anthony T., —
Creeping water bugs (Hemiptera: Naucoridae) of Texas, the, Jack R. Davis, 41:1–26
Creighton, J. Curtis, Caryn C. Vaughn, and Brian R. Chapman, Habitat preference of the endangered American burying beetle (*Nicrophorus americanus*) in Oklahoma, 38:275–277
Crematogaster, 44:459
cerasi, 45:460, 45:465, 45:468
laeviuscula, 37:431, 37:432, 45:120
minutissima, 37:431, 37:432, 38:138
marmonum, 44:278, 44:280–284
Crenichthys baileyi, 38:370, 43:115–119
Creosotebush leaf-litter, 39:78–82
Cressa truxillensis, 40:400
Cretaegus, 41:209
Cricetidae, 38:224
Cricetus cricetus, 44:189
Crithmum maritimum, 37:23
Critical thermal maxima of juvenile and adult San Marcos salamanders (*Eurycea nana*), Casey S. Berkhouse and Joe N. Fries, 40:430–434
Critonia, 46:403
Crocodylus
acutus, 44:395, 44:397
moreletii, 44:395–398
Crooks, Kevin, Demography and status of the island fox and the island spotted skunk on Santa Cruz Island, California, 39:257–262
Crooks, Kevin R., Den-site selection in the island spotted skunk of Santa Cruz Island, California, 39:354–357
Croptilon rigidifolium, 44:266
Cross, Chad L., and Peter M. Waser, Estimating population size in the banner-tailed kangaroo rat, 45:176–183
Crossidium
aberrans, 45:228
crassinerve, 45:228
griseum, 45:229
seriatum, 45:229
spatulaefolium, 45:228
squamiferum, 45:229
Crotalus, 38:164
atrox, 40:188, 41:185, 42:233, 43:443, 43:445, 45:74
basiliscus, 39:174, 42:331
cerastes, 37:426, 41:185
durissus, 39:173, 39:174, 44:481
horridis, 41:183
lepidus, 37:426, 40:187, 40:188, 40:191, 46:55, 46:56
mitchelli, 41:187
molossus, 40:187, 40:188, 42:330, 46:55
molosus, 39:173
polystictus, 39:173
pricei, 40:188, 40:191
scutulatus, 39:208, 42:232–236, 42:330
transversus, 39:173
triseriatus, 39:173
viridis, 40:334, 41:183, 42:330, 43:11, 43:345, 44:481, 39:56, 46:173, 46:174
willardi, 40:188, 40:191, 46:54–61, 46:363–364
Crotaphytidae, 39:45–52, 39:328–335, 43:6
Crotaphytus collaris, 37:204, 37:441, 39:45–52, 39:328–335, 43:443, 43:445
Croton, 38:226, 38:229, 43:165, 45:89, 45:90, 45:92, 45:93, 46:240, 46:241
californicus, 43:48
capitatus, 45:18, 45:19, 45:435, 45:441
corymbulosus, 37:51
dioicus, 38:225
glandulosus, 38:225
humilis, 43:276, 43:277
monanthogynus, 37:368, 37:369, 42:444, 45:95, 45:102, 45:103, 45:413, 45:417
potsii, 38:43
pottsii, 39:343, 39:345
punctatus, 44:267, 45:433, 45:434, 45:436–438, 45:441
willdenowii, 44:441
Crotonopsis elliptica, 45:414
Crotophaga sulcirostris, 37:388, 43:231
Crotophytus reticulata, 42:38
Crumia latifolia, 45:229
Crump, Betty G., see Metcalf, Christopher, —
Crustacea, 38:389–390, 39:206–207, 42:501–503, 43:95–96, 43:256–265, 44:212–213, 45:111–117
Cruz, Alexander, see Chace, Jameson F., —
Cruz D., Gustavo A., see McCarthy, Timothy J., —
Cryan, Paul M., see Perry, Travis W., —
Cryophis hallbergi, 42:233
Cryosophila argentea, 38:80, 38:403
Cryphocricos
hungerfordi, 41:3–5, 41:8, 41:15, 41:16, 41:18, 41:22–24
latus, 41:16, 41:17
mexicanus, 41:15
Cryprinotus incongruens, 41:454
Cryptantha, 43:138
angustifolium, 38:226
maritima, 46:5
muricata, 46:5
Cryptocyclops bicolor, 43:257
Cryptoglossa
laevis, 45:308–311
verrucosus, 45:309
Cryptophagidae, 45:464
Cryptophagus, 45:464
Cryptotis parva, 38:56, 38:285, 40:162, 41:55, 41:193, 45:45, 45:49, 45:50
Cryptotympana mimica, 39:29
Crystallaria asperella, 38:302–303, 43:338
Ctenocephalides felis, 46:96
Ctenopharyngodon idella, 37:138, 37:140, 37:142, 37:143, 37:145, 44:222–226, 46:103
Ctenophora pulchella, 46:203
Ctenophorus, 43:391, 43:393
Ctenophthalmidae, 46:95
Ctenophthalmus pseudagyrtes, 46:94, 46:95
Ctenophyllus armatus, 46:95
Ctenopoda, 40:322–324
Ctenosaura
pectinata, 39:172
similis, 44:480
Cualac, 40:13
Cucujidae, 45:464
Cuculidae, 42:226, 44:508, 45:74–76
Cucurbita
foetidissima, 43:167, 45:47
foetitissima, 38:229
Culaea inconstans, 38:12, 42:283, 42:285
Culex tarsalis, 42:332
Culicidae, 37:170, 38:167, 38:170, 42:261, 42:332
Cully, Anne, see Knight, Paul J., —
Cully, Jack F., Jr., see Kretzer, Justin E., and —
Culoptila cantha, 38:21
Cummings, Connie A., 44:420
Cummings, Connie C., see Sinclair, John A., —
Cunningham, Stanley C., Warren B. Ballard, and Heather A. Whitlaw, Age structure, survival, and mortality of mountain lions in southeastern Arizona, 46:76–80
Cupidinimus, 37:231, 37:235, 37:241, 37:245
magnus, 37:234, 37:239
Cupressaceae, 43:363–373, 44:6–16, 46:286
Cupressus, 38:77

arizonica, 40:340, 42:133, 44:341, 46:62, 46:63
forbesii, 43:363–373
lindelevi, 45:239
lindleyi, 45:239
macrocarpa, 43:367
Curculionidae, 37:108, 37:113, 37:114, 37:170, 38:3, 42:128, 44:508, 45:358, 45:464, 46:241
Curicta scorpio, 40:250
Current and historical mussel fauna of the Kiamichi River, Oklahoma, the, Caryn C. Vaughn, Charles M. Mather, Mark Pyron, Patricia Mehlhop, and Estelle K. Miller, 41:325–328
Cuscuta, 45:435, 45:441
attenuata, 45:420
salina, 40:400, 40:401, 44:349
Cuscutaceae, 45:441
Custer, Christine M., Thomas W. Custer, and Phillip J. Zwank, Migration chronology and distribution of redheads on the lower Laguna Madre, Texas, 42:40–51
Custer, Thomas W., see Custer, Christine M., —
Custer, Thomas W., see Mitchell, Christine A., —
Cuterebra, 39:383–386
Cutler, David, see Agrawal, Anurag A., —
Cutler, Tricia L., and Michael L. Morrison, Habitat use by small vertebrates at two water developments in southwestern Arizona, 43:155–162
Cyanocitta
cristata, 43:174
stelleri, 40:97, 40:182, 40:233, 41:88, 41:270, 43:456, 45:173
Cyanococcus, 42:119
Cyanocompsa
cyanoides, 43:232
parellina, 43:232
Cyclaloma atriplicifolia, 38:226
Cyclochila australasiae, 39:29
Cycloloma, 46:240
Cyclopes didactylus, 46:252
Cyclopidae, 43:258
Cyclops viridis, 43:257
Cylosternum, 45:299, 45:302
obscurum, 45:304
palomeranum, 45:301, 45:303, 45:304
Cylotella
meneghiniana, 46:202, 46:203
michiganiana, 37:149, 37:150
Cylotrachelus, 45:463
Cyclura stejnegeri, 42:38
Cydnidae, 37:109, 37:111
Cygnus columbianus, 37:400
Cylindrotheca gracilis, 46:202, 46:203
Cymatodera
antennata, 37:107, 37:111, 37:115
latefasciata, 37:107
Cymatogaster aggregata, 38:220, 38:221
Cymatopleura elliptica, 46:203
Cymbella
affinis, 37:149, 37:150, 37:153
amphicephala, 37:150
microcephala, 37:150
minuta, 37:150
prostrata, 37:150
pusilla, 37:150, 46:203
sinuata, 37:150
tumida, 46:203
tumidula, 37:150
Cymbellaceae, 37:150
Cymindis
arizonensis, 37:106, 37:111
interior, 37:106, 37:111
Cymtodera antennata, 37:113
Cymus coriacipennis, 45:463
Cynanchum, 46:402
barbigerum, 46:401
maccartii, 46:401
unifarium, 46:402
Cynanthis latirostris, 46:262, 46:263, 46:269
Cynanthus latirostris, 37:388
Cynodon, 39:156
dactylon, 39:114–121, 41:55, 43:14, 45:387, 45:388, 45:392, 45:416
Cynomops planirostris, 44:327
Cynomys, 38:105–110
churcherii, 38:106
gunnisoni, 37:357, 37:358, 38:105, 38:106, 38:109, 43:148, 46:94
leucurus, 37:358, 38:105, 38:106, 43:148
ludovicianus, 37:57, 37:61–63, 38:105, 38:106, 38:109, 40:45, 40:46, 40:288, 41:48, 42:251–258, 43:148, 43:344–351, 44:401, 44:484–489, 46:171–177
mexicanus, 38:106, 38:109, 42:467, 42:468, 43:147–154
niobrarius, 38:106, 38:108, 38:109
parvidens, 38:105, 38:106, 43:147, 43:148
spispiza, 38:106
Cynoscion xanthulus, 45:516, 45:520
Cyperaceae, 38:57, 42:118, 45:431, 45:436, 45:440, 45:441, 46:286
Cyperus, 42:501, 45:411, 45:415
aristata, 45:417
echinatus, 45:435
esculentus, 38:166, 38:167, 42:319, 45:435, 45:441
retrorsus, 45:441
schweinitzii, 45:412
schweinitzii, 44:431, 44:432, 45:409
Cypher, Brian L., Coyote morphometric characteristics and mass dynamics in the San Joaquin Valley, California, 40:360–365
Cypher, Brian L., Kenneth A. Spencer, and Jerry H. Scrivner, Food-item use by coyotes at the Naval Petroleum Reserves in California, 39:91–95
Cypher, Brian L., Spatiotemporal variation in rodent abundance in the San Joaquin Valley, California, 46:66–75
Cyphomyrmex, 44:459
rimosus, 46:397, 46:400
wheeleri, 46:397, 46:400
Cypinella formosa, 39:233
Cypridopsis vidua, 41:453, 41:454
Cyprinella
bocagrande, 39:226, 40:9, 44:50
camura, 41:302
formosa, 39:225, 40:9, 41:446, 41:448, 41:449, 44:49–52, 44:54, 44:55
galactura, 44:49–52
garmani, 40:9, 44:50
lepida, 40:5, 40:9, 44:49–52, 44:54, 44:55
lutrensis, 37:142, 37:178, 37:180–185, 37:262–266, 38:12, 38:364, 38:397–399, 39:242, 39:390, 40:5–10, 41:75, 41:301, 41:302, 41:304, 41:312, 42:112, 42:114, 42:117, 42:282, 44:49–56, 44:287–295, 44:390, 44:392–394, 45:277, 45:278, 45:280, 45:285, 46:303, 46:316, 46:319, 46:412, 46:536; 46:531; 46:535
panarcys, 40:9, 44:50, 44:54
proserpina, 37:180–185, 37:262–266, 42:265, 42:266, 42:268, 42:270–272, 42:275, 44:49–52, 44:54, 46:217, 46:218
proserpinus, 40:9
rutila, 40:9, 44:54
spiloptera, 44:50
venusta, 37:142, 37:143, 37:180–184, 37:262–265, 42:265, 42:268–272, 42:275, 44:49–52, 45:277, 45:278, 45:280, 45:285, 46:217, 46:218
whipplei, 43:340, 44:49–51
xanthicara, 40:9, 44:54
Cyprinidae, 37:217–222, 38:221, 38:302–303, 39:148, 39:192–195, 39:224–234, 39:241–248, 40:5–10, 40:316, 40:319, 42:265, 42:282–284, 42:287, 44:49–56, 44:222–226, 44:393
Cyprinidontidae, 41:73–78, 41:482
Cypriniformes, 40:107–110, 40:237–241
Cyprinodon, 37:185, 37:337–343, 39:225, 39:227, 39:228, 42:276, 44:171, 45:517
alvarezi, 40:11–16
artifrons, 37:341, 44:168
baconi, 37:341
beltrani, 37:337–343
bovinus, 45:521, 46:148
ceciliae, 40:12–16
diabolis, 40:216–223
elegans, 40:318, 46:148
eximius, 37:262–265, 40:12–15, 42:

265, 42:266, 42:268, 42:270–272, 42:275
fontinalis, 39:226
immemoriam, 40:12, 40:16
labiosus, 37:337–343
longidorsalis, 40:12–16
longispinus, 40:15
maculatus, 45:514
macularius, 37:341, 40:219, 41:73–78, 45:516, 46:141–150
maya, 37:337–343
nevadensis, 37:341, 39:300–303, 40:219
nobilis, 40:318
pecosensis, 37:178, 37:183, 37:186, 40:319, 42:336–339
rubrofluviatilis, 37:341, 44:287–295, 46:412, 46:526, 46:531, 46:535
simus, 37:337–343
tularosa, 44:157–165
variegatus, 37:183, 37:186, 37:341, 42:336–338, 44:294
veracundus, 37:337, 37:338
veronicae, 40:12–16
Cyprinodontidae, 37:337–343, 40:11–17, 40:316, 40:319, 42:282, 42:287, 42:336–339, 44:168, 45:517
Cyprinotus
antillensis, 41:454
fretensis, 41:454
neomexicanus, 41:454
Cyprinus carpio, 37:12, 37:180–184, 37:262–264, 37:358, 38:12, 38:280–281, 38:364, 38:397, 39:107, 39:110, 39:227, 39:233, 39:390, 41:75, 41:301, 41:302, 41:311, 41:312, 42:268, 42:273, 42:282, 43:119, 44:385, 44:392–394, 45:278, 45:285, 46:103, 46:314, 46:316
Cypseloides rutilus, 44:114
Cycus cyaneus, 42:225
Cyrnellus fraternus, 38:21
Cytopholis portoricae, 44:518
Cytharexyllun tetramerum, 43:39
Cyttarops alecto, 38:299
Czaplewski, Nicholas J., Late Tertiary bats (Mammalia, Chiroptera) from the southwestern United States, 38:111–118

D. apache, 41:138, 41:139
Dabbert, C. Brad, and Thomas E. Martin, Effects of diet composition and ambient temperature on food choice of captive mallards, 39:143–147
Dactyades excelsa, 43:71, 43:72, 43:74, 43:75
Dactylis glomerata, 44:90, 44:91
Dactylea frenatus, 45:360
Dactylobactis, 38:257, 38:258
Dactylopsylla
bluei, 46:94, 46:95
neomexicana, 46:95
Dactylotum
pictum, 39:24
variegatum, 39:21–25
Dalbergia sissoo, 42:119
Dalea, 37:114, 41:425, 46:241
bicolor, 37:380
candida, 44:433, 44:434
enneandra, 44:435, 45:217
formosa, 43:54, 43:165, 43:166
gattingeri, 42:391
purpurea, 44:433, 44:434
thyrsiflora, 43:276, 43:277
villosa, 45:408
Dalia, 46:191
Dallasiellus discrepans, 37:109
Dalquest, Walter W., John V. Grimes, and Frederick B. Stangl, Jr., Characters of the upper premolar of five species of *Dipodomys* and evidence for diphyly in the genus, 37:231–246
Dalquestia, 38:238
Dama dama, 44:184, 46:119
Danaea nodosa, 43:74, 43:75
Danaus
gilippus, 39:142
plexippus, 39:142, 40:233
Daniel, Alipayou, see Holechek, Jerry L., —
Daniels, Gwendolyn L., and James D. Felley, Life history and foods of *Gambusia affinis* in two waterways of southwestern Louisiana, 37:157–165
Daniels, Gwendolyn L., see Felley, James D., and —
Dannella, 38:269
Danthonia, 46:292
intermedia, 43:214
spicata, 44:427, 45:401, 45:405, 45:406
Danzer, Steven J., Roy Jemison, and D. Phillip Guertin, Riparian plant communities in the mountains of southeastern Arizona, 46:191–199
Dao, Tony C., see Spiegel, Linda K., —
Daphnia, 38:159, 39:161, 39:163, 40:322, 46:24, 46:27
ambigua, 40:323, 40:324
galeata, 43:95
lumholtzi, 46:215
parvula, 40:323, 40:324
retrocurva, 43:95
similis, 40:323
Daphnidae, 40:323
Darcythompsoniidae, 43:259
Dasilirion, 43:39
Dasyhelea, 42:166
sublettei, 39:206, 39:207
Dasylirion, 37:387, 38:78, 41:469, 46:250
leiophyllum, 37:434, 38:77, 45:339
wheeleri, 41:465, 41:467, 44:142, 46:195
Dasymutilla
chiran, 46:221, 46:222
dilucida, 46:221, 46:222
foxi, 46:221, 46:222
gloriosa, 46:221, 46:222
serenitas, 43:254
Dasyochloa pulchellum, 45:444
Dasypodidae, 43:491–495
Dasypterus ega, 44:327
Dasypus novemcinctus, 39:378–380, 40:224–225, 40:414–416, 43:462–468, 43:491–495, 44:325, 44:331, 45:473, 46:252
Datura wrightii, 44:87, 44:88
Daucus carota, 43:431, 43:434, 44:12
Davenport, Steven R., see Perry, Travis W., —
Davis, Jack R., The creeping water bugs (Hemiptera: Naucoridae) of Texas, 41:1–26
Davis, M. R., see Lonard, Robert I., —
Davis, Michael R., see Everitt, James H., —
Davis, William E., Jr., see Kricher, John C., and —
Day, Keith S., Observations on mountain plover (*Charadrius montanus*) breeding in Utah, 39:298–300
Dayton, Gage H., see Bonine, Kevin E., —
de la Cueva, Horacio, see Fernández, Guillermo, —
de la Rosa, M. E., see Olvera, O., —
de la Rosa, Ma. Esther, see Guzman, Judith, —
de Lourdes Romero A., María, see Sánchez H., Cornelio, —
Deacon, James E., Frances R. Taylor, and John W. Pedretti, Egg viability and ecology of Devils Hole pupfish: insights from captive propagation, 40:216–223
Dead and dying Brazilian free-tailed bats (*Tadarida brasiliensis*) from Texas: rabies and pesticide exposure, Donald R. Clark, Jr., Amanda Lollar, and Deborah F. Cowman, 41:275–278
Dean, Kurt L., see Swanson, David L., —
Dean, W. R. J., see Milton, Suzanne J., —
DeBano, S. J., Male mate searching and female availability in the dragonfly, *Libellula saturata*: relationships in time and space, 41:293–298
Decapoda, 39:63–66
Deckard, Krista, see Mathis, Alicia, —
Decomposition and nitrogen release from foliage of cottonwood (*Populus deltoides*) and Russian-olive (*Elaeagnus angustifolia*) in a riparian ecosystem, Stacey B. Simons and T. R. Seastedt, 44:256–260
Deer densities in La Michilía: a reply

to Galindo, Sonia Gallina and Exequiel Ezcurra, 37:422–424
Deidamia inscripta, 39:339
Delgadillo, José, see Peinado, Manual, —
Delotelis telegoni, 46:95
Delphacidae, 45:463
Delphinium
alabamicum, 42:391
carolinianum, 42:391
treleasei, 42:391
Demarais, Stephen, see Jorgensen, Eric E., —
Demarais, Stephen, see Lambert, Billy C., Jr., and —
Demarais, Stephen, see Root, J. Jeffrey, —
Demastes, James W., see Monterrubio, Tiberio, —
Demastes, James W., Systematics and zoogeography of the Mer Rouge pocket gopher (*Geomys breviceps breviceps*) based on cytochrome-β sequences, 39:276–280
Demographic responses of kit foxes to supplemental feeding, Gregory D. Warrick, Jerry H. Scrivner, and Thomas P. O'Farrell, 44:367–374
Demography and status of the island fox and the island spotted skunk on Santa Cruz Island, California, Kevin Crooks, 39:257–262
Demography of an insular endemic rodent, *Peromyscus maniculatus santacruzae*, on Santa Cruz Island, Rick L. Mayfield, Dirk Van Vuren, and Michael L. Johnson, 45:508–513
Den characteristics and survivorship of woodrats (*Neotoma lepida*) in the eastern Mojave Desert, Felisa A. Smith, 40:366–372
Den-site selection in the island spotted skunk of Santa Cruz Island, California, Kevin R. Crooks, 39:354–357
Dendrocincla
anabatina, 43:231, 43:232
homochroa, 43:231
Dendroctonus, 39:283–286
adjunctus, 39:283–286
frontalis, 39:283–286
mexicanus, 39:283–286
valens, 39:283–286
Dendrocygna
autumnalis, 38:170, 38:383–385, 45:234–238
bicolor, 38:170, 39:190, 41:196, 45:234–238
javanica, 45:235
Dendroica
caerulescens, 45:163, 45:165
chrysoparia, 42:408
coronata, 38:63, 40:76, 40:80, 42:140, 42:227, 43:158, 43:456, 45:163, 45:164
fusca, 45:163
graciae, 40:81
magnolia, 45:163
nigrescens, 40:232, 45:163
palmarum, 45:163
pensylvanica, 37:255, 42:106, 43:456, 45:163, 45:165
petechia, 42:140, 42:227, 43:456, 45:163, 45:164
townsendi, 37:389, 45:163
virens, 42:106
Dendromecon rigida, 42:119
Dendropanax arboreus, 43:74
Dendrortyx barbatus, 45:238–241
Dendrotettix quercus, 37:364, 37:365
Dendrotriton, 43:88
bromeliacia, 43:89, 43:90
cuchumatanus, 43:89
megarhinus, 43:89
rabbi, 43:89, 43:90
sanctibarbarus, 43:89, 43:90
xolocalcae, 43:89
Dens and den sites of the swift fox, Victoria L. Jackson and Jerry R. Choate, 45:212–220
Densities of coyotes at the interface of Saguaro National Monument and Tucson, Arizona, Mark F. McClure, Norman S. Smith, and William W. Shaw, 41:83–86
Density and demographic variation within a population of *Larrea tridentata*, the relationship between, Richard E. Miller and Laura F. Huenneke, 45:313–321
Density and distribution of *Selaginella lepidophylla* in the Black Gap area of the Chihuahuan Desert of western Texas, factors influencing the, O. W. Van Auken and J. K. Bush, 37:274–279
Density of nesting peregrine falcons in Grand Canyon National Park, Arizona, Bryan T. Brown, G. Scott Mills, Richard L. Glinski, and Stephen W. Hoffman, 37:188–193
Denticula elegans, 37:151, 46:203
Dermacentor, 37:110
Dermanura
azteca, 44:405
phaeotis, 40:33, 45:344
watsoni, 45:344
Dermanyssidae, 42:331
Dermanyssus gallinae, 42:129
Dermestidae, 45:464
Deroceras, 38:294
laeve, 38:295, 38:297, 42:472, 42:473, 42:475
reticulatum, 44:90, 44:91
Deschampsia danthanoides, 45:112
Descurainia pinnata, 43:450, 43:451
Descurania pinnata, 38:226
Desert mule deer and forage resources in Southwest Arizona, Steven K. Albert and Paul R. Krausman, 38:198–205
Desert mule deer use of altered vegetation along the Hayden-Rhodes Aqueduct, Arizona, Paul R. Krausman, Lisa M. Fox, Richard C. Etchberger, and Kevin B. Fox, 38:206–211
Desmanthus
illinoensis, 39:212–213, 44:434, 44:436
velutinus, 43:196
Desmatodon convolutus, 45:231
Desmodium, 37:369
canadense, 40:137
glutinosum, 45:401, 45:402
Desmodus rotundus, 40:34, 40:35, 40:37, 44:113, 44:114, 44:233, 44:327, 45:344
Desmognathus
auriculatus, 43:7
brimleyorum, 38:36–42
fuscus, 38:37
ochrophaeus, 38:37, 38:39, 38:41
Desucre-Medrano, Atahualpa E., see Ramírez B., Patricia, —
Development of the tail autotomy adaptation in lizards under disparate levels of predation at high and low elevations in Mexico, Stanley F. Fox, Susana Perea-Fox, and Rubén Castro Franco, 39:311–322
Devine, D. L., see Senock, R. S., —
deVos, James C., Jr., see Morrell, Thomas E., —
DeWalt, R. Edward, Kenneth W. Stewart, Stephen R. Moulton, II, and James H. Kennedy, Summer emergence of mayflies, stoneflies, and caddisflies from a Colorado Mountain stream, 39:249–256
Diabrotica undecimpunctata, 40:429
Diacyclops, 43:261
bernardi, 43:258
chakan, 43:258
puuc, 43:258
thomasi, 43:96
Dialictus
comulus, 40:429
pruinosiformis, 40:429
Dialium guianense, 37:427 43:229
Diamanus montana, 46:95
Diamond, David D., C. Diane True, and Kan He, Regional priorities for conservation of rare species in Texas, 42:400–408
Diaphanosoma birgei, 40:323, 40:324, 43:95
Diapriidae, 45:465
Diaptomidae, 43:258, 43:259
Diaptomus, 43:260
Diatoma
hiemale, 37:150

tenue, 37:150
vulgare, 37:148–150, 37:152, 37:154, 46:203
Diatoms (Bacillariophyta) from saline waters within Quivira National Wildlife Refuge, Stafford County, Kansas, Marsha R. Harris and Mark E. Eberle, 46:200–207
Díaz, M. Mónica, and Rubén M. Barquez, Contributions to the knowledge of the mammals of Jujuy Province, Argentina, 44:324–333
Dicamptodon ensatus, 40:329
Dicanthelium, 46:396
oligosanthes, 40:137
Dicercocta
apache, 39:26
cinctifera, 41:136–139
Dichanthelium
oligosanthes, 45:419
oligosanthes, 45:412
scoparium, 45:388, 45:390, 45:416
Dichotomius carolinus, 37:107, 37:115
Dickerman, Robert W., Lectotype designation for *Buteo jamaicensis suttoni*, 41:198
Dickerman, Robert W., Undescribed subspecies of red-tailed hawk from Baja California, 39:375–377
Dicoria, 42:221, 42:222
canescens, 42:218, 42:220
Dicosmoecus atripes, 39:252
Dicotyles tajacu, 37:375
Dicranophoridae, 45:369
Dicranophoroides caudatus, 45:369
Dicranophorus
forcipatus, 45:369
robustus, 45:369, 45:371, 45:372
uncinatus, 45:369
Dicranotaenia coronula, 40:326
Dicranoweisia crispula, 45:229
Dictyna
coloradensis, 46:209
personata, 46:209
subulata, 45:462
Dictynidae, 45:462, 46:209
Didelphis
marsupialis, 37:427, 37:428, 39:379
virginiana, 37:428, 39:382, 40:162, 40:288, 40:336–340, 42:37, 42:170–176, 46:119, 46:178–182
Didymocentrus, 37:130, 37:131
Didymodon
australasiae, 45:229
nevadensis, 45:229
tophaceus, 45:229
vinealis, 45:229
Diemictylus viridescens, 40:432
Diet and growth of smallmouth bass in the Devils River, Texas, Michael S. Robertson and Kirk O. Winemiller, 46:216–221
Diet composition and ambient temperature on food choice of captive mallards, effects of, C. Brad Dabbert and Thomas E. Martin, 39:143–147
Diet of diploid and triploid populations of parthenogenetic whiptail lizards of the *Cnemidophorus tesselatus* complex (Teiidae) in southeastern Colorado, Mark A. Paulissen, James M. Walker, James E. Cordes, and Harry L. Taylor, 38:377–381
Diet of feral hogs in the western South Texas Plains, Richard B. Taylor and Eric C. Hellgren, 42:33–39
Diet of neonatal Yarrow's spiny lizard, *Sceloporus jarrovii jarrovii* (Phrynosomatidae), Charles R. Bursey and Stephen R. Goldberg, 38:381–383
Diet of Stephens' kangaroo rat, *Dipodomys stephensi*, Margot Lowe, 42:358–361
Dietary analysis of helmeted basilisks, *Corytophanes* (Reptilia: Corytophanidae), Mahmood Sasa and Juan Salvador Monrós, 45:358–361
Diets of coyotes near the boundary of Saguaro National Monument and Tucson, Arizona, Mark F. McClure, Norman S. Smith, and William W. Shaw, 40:101–104
Diets of mountain lions in southwestern Arizona, Jenny L. Cashman, Matthew Peirce, and Paul R. Krausman, 37:324–326
Diets of native and non-native ungulates in southcentral New Mexico, Christine Smith, Raul Valdez, Jerry L. Holechek, Phillip J. Zwank, and Manuel Cardenas, 43:163–169
Diets of ring-necked ducks wintering on Catahoula Lake, Louisiana, Michael S. Peters and Alan D. Afton, 38:166–168
Differential use of roadside fencerows and contiguous pastures by small mammals in southeastern Oklahoma, Bryon K. Clark, Brenda S. Clark, Walter E. Munsterman, and Todd R. Homerding, 41:54–59
Digenea, 44:222–226
Digenia simplex, 41:419
Digitaria, 46:241, 46:396
arenicola, 44:267
californica, 43:450
cognata, 41:184
sanguinalis, 45:417, 45:419
Diminutive woodrat, *Nelsonia neotomodon*, in the Mexican transvolcanic range, range extension for the, John I. Glendinning, 37:92–93
Dimorphocarpa palmeri, 45:408
Diodia teres, 45:92, 45:93, 45:420
Dionedea
immutabilis, 42:303, 42:308
nigripes, 42:308
Dionda
argentosa, 37:217–222, 37:259, 37:261–266, 42:268, 42:270–272, 42:275, 46:217, 46:218, 46:220
diaboli, 37:217–222, 37:259–267, 39:398, 39:403, 40:319, 42:265, 42:266, 42:268, 46:217, 46:218
episcopa, 37:180–185, 37:217–222, 37:259
serena, 37:217–222
texensis, 37:220
Dioon edule, 44:458
Diorchis, 39:205, 40:325
bullodes, 39:204, 40:326
Diosaccidae, 43:259
Dioscorea
floribunda, 45:79
japonica, 38:97
septemloba, 38:97
Diosporos riojae, 45:424, 45:425
Diospyros
nicaraguensis, 45:79
palmeri, 43:42–44
texana, 37:198, 38:78, 38:141–145, 42:444, 43:41–44, 43:190, 43:200, 43:276, 43:277, 44:7, 45:97, 45:105, 46:401
virginiana, 37:369, 45:392, 45:410, 45:412
Diphetor hageni, 38:258, 38:269, 39:251
Diphlorhoptrum krockowi, 46:397
Diphylla ecaudata, 40:34, 40:35, 40:37
Diphysa robinoides, 41:436
Dipleuchlanis elegans, 45:367, 45:368, 45:370, 45:372
Diplocentridae, 37:126–131
Diplocentrus
colwelli, 37:131
gertschi, 37:126–131
hoffmanni, 37:130
keyserlingii, 37:130
rectimanus, 37:130
spitzeri, 37:126
zacatecanus, 37:130
Diplocentrus from western Mexico (Scorpiones, Diplocentridae), a new species of, W. David Sissom and Anne L. Walker, 37:126–131
Diplocladius cultriger, 42:166
Diploneis
interrupta, 46:203
oblongella, 46:203
smithii, 37:151
Diplostomum, 41:289, 41:290
Diplotaxis, 37:107
thoracicus, 46:209
Diplotriaenidae, 42:330
Dipodomys, 37:383, 38:164, 39:135, 39:287, 43:55, 43:480, 44:194, 45:490–507
agilis, 37:5, 42:359, 43:397, 43:481,

43:482, 45:494, 45:495, 45:498, 45:501, 45:503
californicus, 44:240–241, 45:494, 45:495, 45:497, 45:498, 45:500–504
compactus, 37:231–246, 45:494, 45:495, 45:497, 45:498, 45:501–503
deserti, 37:5, 42:328, 43:158, 43:397, 43:399, 45:494, 45:495, 45:497, 45:498, 45:500, 45:501, 45:503, 45:504
elator, 37:5, 37:231–246, 45:491
elephantinus, 39:128, 39:129, 39:131, 39:133, 45:502
gidleyi, 37:238
gravipes, 37:5, 45:491, 45:494, 45:495, 45:497, 45:498, 45:500, 45:501, 45:503
heermanni, 39:91, 39:129, 39:130, 39:131, 39:133, 40:344, 41:129, 41:132, 45:206, 45:494, 45:495, 45:497, 45:498, 45:500, 45:501, 45:504, 46:66, 46:68
hibbardi, 37:235, 37:238
ingens, 39:91, 40:344, 43:270, 45:494, 45:495, 45:497, 45:498, 45:501, 45:503, 46:67
insularis, 37:1–8, 45:502
kansensis, 37:235, 37:238
margaritae, 37:1
merriami, 37:1–8, 37:231–246, 39:293, 42:328, 43:158, 43:271, 43:397–401, 44:195, 44:196, 45:182, 45:494, 45:495, 45:497, 45:499, 45:500–504, 45:533, 45:534, 46:245, 46:334
microps, 37:5, 42:490, 45:494, 45:496, 45:499, 45:500, 45:501, 45:504
minor, 37:238
nelsoni, 45:491, 45:494, 45:496, 45:497, 45:499, 45:500, 45:501
nitratoides, 37:1–8, 39:91, 40:344, 41:129, 41:132, 45:494, 45:496, 45:497, 45:499, 45:500, 45:501, 45:504, 46:66, 46:67
ordi, 38:285
ordii, 37:5, 37:231–246, 37:382, 38:224–235, 39:3, 39:5, 39:8, 39:293, 40:45–46, 40:104, 40:106, 40:153, 40:162, 40:284, 42:15, 42:16, 42:328, 43:147, 43:148, 43:153, 43:271, 43:272, 44:101, 44:193, 44:195–197, 45:45, 45:48–51, 45:182, 45:494, 45:496, 45:497, 45:499–504, 45:533, 45:534
panamintinus, 45:494, 45:496, 45:499, 45:500–502, 45:504
pattersoni, 37:238
phillipsii, 37:5, 37:231, 37:382, 45:494, 45:496, 45:497, 45:499, 45:500–502
simulans;, 43:397, 43:399, 45:494, 45:496, 45:499, 45:500, 45:501, 45:503, 45:504, 45:505, 46:245
spectabilis, 37:5, 37:231–246, 39:293, 42:492, 43:269–273, 45:176–183, 45:494, 45:497, 45:500, 45:501, 45:504, 46:72
stephensi, 42:358–361, 43:270, 45:491, 45:502
venustus, 39:128, 39:129, 39:131, 39:133, 42:3, 42:5, 42:10, 42:11, 45:494, 45:497, 45:500–502
Dipogon
graenicheri, 43:253
iracundus, 43:253
Dipronomys magnus, 37:234
Dipsosaurus dorsalis, 37:284, 46:221, 46:406
Dipylidium caninum, 43:477
Direct and indirect effects of floating vegetation mats on Texas wildrice (*Zizania texana*), Paula Power, 41:462–464
Dirofilaria immitis, 43:476–478, 46:123
Discidae, 38:295
Discoderus
impotens, 37:106
parallelus, 37:106
Discus, 38:297
cronkhitei, 38:294, 38:295
Disparity in age of nestlings in a Say's phoebe nest from New Mexico, wide, Dale W. Stahlecker, 44:540–542
Dispersal characteristics of young bobcats from northeastern Kansas, Jan F. Kamler, Philip S. Gipson, and Trisha R. Snyder, 45:543–546
Dispersal of seeds as nest material by the cactus wren, Suzanne J. Milton, W. R. J. Dean, G. I. H. Kerley, M. T. Hoffman, and W. G. Whitford, 43:449–452
Distegia involucrata, 43:210, 43:212
Distichilis spicata, 42:417
Distichium inclinatum, 45:229
Distichlidetum spicatae, 40:394, 40:401
Distichlis, 41:350, 42:224, 42:489
spicata, 39:186, 40:264, 40:394, 40:399, 40:401, 41:76, 41:345, 42:319, 42:417, 43:313, 43:315, 43:316, 43:318, 43:319, 44:436–438, 45:386, 45:409, 45:414, 45:415, 45:420
Distoichometra bufonis, 46:223–225, 46:227–229
Distribucion y notas ecologicas de los acociles (Cambaridae: *Procambarus*) del estado de Tamaulipas, Mexico, Gabino A. Rodríguez-Almaraz, Mario A. Coronado-Magdaleno, and Ernesto Campos, 38:390–393
Distribution, abundance, and habitat use of Rio Grande sucker (*Catostomus plebeius*) in Hot Creek, Colorado, Susan M. Swift-Miller, Brett M. Johnson, Robert T. Muth, and David Langlois, 44:42–48
Distribution and abundance of Coues deer and cattle in Michilia Biosphere Reserve, Mexico, Carlos Galindo-Leal, Angeles Morales G., and Manuel Weber R., 38:127–135
Distribution and abundance of the Mexican lampreys (Petromyzontidae: *Lampetra*: subgenus *Tetrapleurodon*), John Lyons, Philip A. Cochran, Oscar J. Polaco, and Evodio Merino-Nambo, 39:105–113
Distribution and movements of Colorado squawfish, *Ptychocheilus lucius*, in the San Juan River, New Mexico, Colorado, and Utah, observations on the, Dale W. Ryden and Lief A. Ahlm, 41:161–168
Distribution and notes on the biology of Zuni bluehead sucker, *Catostomus discobolus yarrowi*, in New Mexico, David L. Propst, Amber L. Hobbes, and Terry L. Stroh, 46:158–170
Distribution and population status of mountain lions in southwestern Arizona, Stephen S. Germaine, Kirby D. Bristow, and Lisa A. Haynes, 45:333–338
Distribution and status of the Chihuahua chub (Teleostei: Cyprinidae: *Gila nigrescens*), with notes on its ecology and associated species, David L. Propst and Jerome A. Stefferud, 39:224–234
Distribution and status of the Devils River minnow, *Dionda diaboli*, Gary P. Garrett, Robert J. Edwards, and Andrew H. Price, 37:259–267
Distribution of continental fishes in northern Quintana Roo, Mexico, Juan J. Schmitter-Soto, 44:166–172
Distribution of *Corallus annulatus* (Boidae), with comments on its natural history, the northernmost, Eric N. Smith and Manuel E. Acevedo, 42:347–349
Distribution of the threatened leopard darter, *Percina pantherina* (Osteichthyes: Percidae), Alexander V. Zale, Stuart C. Leon, Matthew Lechner, O. Eugene Maughan, Mark T. Ferguson, Steve O'Donnell, Brenda James, and Paul W. James, 39:11–20
Distributional and natural history notes for selected mammals from Costa Rica, Fiona A. Reid and Catherine A. Langtimm, 38:299–302
Distributional records for Texas reptiles and amphibians, new, Ronald L. Gutberlet, Jr., Carol L. Stewart, and Michael B. Keck, 43:6–12
Distributional status of short-tailed shrews (genus *Blarina*) in Texas,

George D. Baumgardner, Norman O. Dronen, and David J. Schmidly, 37:326–328
Disturbance of wintering green-winged teal and mallards by raptors, William P. Johnson and Frank C. Rohwer, 41:331–334
Dithyrea wislizenii, 38:225
Diurnal aggregation of banded geckos under field conditions, Russell L. Burke, 39:297–298
Dixidae, 37:170
Dixon, James R., R. Kathryn Vaughan, and Larry David Wilson, The taxonomy of *Tantilla rubra* and allied taxa (Serpentes: Colubridae), 45: 141–153
Dixon, James R., see Whiting, Martin J., —
Dixon, Michael T., see Higginbotham, Jana L., —
Doan-Crider, D. L., see Maehr, D. S., —
Documenting risk-avoidance in desert rodents using a new technique, Brandon T. Bestelmeyer and Matthew T. Stevenson, 43:397–402
Dodecatheon meadia, 45:413
Dodonaea viscosa, 46:195
Dodonea viscosa, 37:376
Dolania americana, 39:58
Dolba hyloeus, 39:339
Dolichopodidae, 42:261
Dolichotis salinicola, 44:330
Donart, G. B., see Senock, R. S., —
Donovan, Lisa A., see Sandquist, Darren R., —
Doristana bonaerensis, 41:138
Dorlac, Joseph, see Wilkinson, Chris, —
Dormancy-breaking and germination requirements in seeds of the summer annual *Palafoxia callosa* (Asteraceae) from central Texas, Carol C. Baskin, Jerry M. Baskin, and O. W. Van Auken, 44:272–277
Dormitator maculatus, 44:169
Dorosoma, 46:155
cepedianum, 37:178, 37:180–184, 37: 262–264, 38:12, 41:149, 41:152, 41: 301, 41:302, 41:311, 41:312, 42: 268, 42:274, 42:282, 45:278, 45: 280, 45:282, 46:23, 46:24, 46:154
petenense, 37:262–264, 44:168–170, 45:277, 45:278, 45:282, 45:284, 46: 154
Dorsoma petenense, 44:388
Dorymyrmex
flavus, 46:397, 46:399
insana, 45:465
Dosilia radiospiculata, 44:211–212
Double captures of small mammals in single-capture traps: random encounters or social traveling?, James F. Taulman, Ronald E. Thill, and James H. Williamson, 39:358–363
Douglas, Marlis R., Michael E. Douglas, and Patrick C. Brunner, Population estimates, movements, and size structure of the endangered Quitobaquito pupfish, *Cyprinodon macularius eremus*, 46:141–150
Douglas, Michael E., see Douglas, Marlis R., —
Douglas, Michael E., see Smith, Lawrence J., —
Dowhower, Steve L., see Weltzin, Jake F., —
Dowling, Thomas E., see Schmidt, Timothy R., —
Draba cuneifolia, 45:103
Drassodes gosiutus, 46:209
Drassyllus, 45:462
dromeus, 46:209
inanus, 46:209
lamprus, 46:209
lepidus, 46:209
nannellus, 46:209
Driscoll, Barbara, see Szarek, Stan R., —
Dronen, Norman O., James R. Lindsey, Lisa M. Ross, and George M. Krise, Helminths from mallard ducks, *Anas platyrhynchos*, wintering in the post-oak savannah of southcentral Texas, 39:203–205
Dronen, Norman O., see Baumgardner, George D., —
Dronen, Norman O., see Schmid, Jennifer L., —
Drosophila
melanogaster, 38:15–18, 43:2
miranda, 38:52
persimilis, 38:52
pseudoobscura, 38:15, 38:52–55
simulans, 38:15–18
willistoni, 38:52
Drost, Charles A., and Dean W. Blinn, Invertebrate community of Roaring Springs Cave, Grand Canyon National Park, Arizona, 42:497–500
Drought on Engelmann prickly pear (Cactaceae: *Opuntia engelmannii*) fruit and seed production, the effect of, Janice E. Bowers, 42:240–242
Drunella
coloradensis, 38:264
doddsi, 38:265, 38:269, 39:251
grandis, 38:265, 38:269
Drymarchan corias, 42:38
Drymarchon corais, 39:172, 42:331, 42: 332
Drymobius margaritiferus, 39:172
Dryophthoridae, 44:508
Dryopidae, 44:24
Dryopteris marginalis, 45:410
DuBowy, Paul J., Effects of water levels and weather on wintering herons and egrets, 41:341–347
Duchesnia indica, 40:224
Dudley, Robert K., and William J. Matter, Effects of a record flood on fishes of Sabino Creek, Arizona, 44:218–221
Dudley, Robert K., and William J. Matter, Effects of small green sunfish (*Lepomis cyanellus*) on recruitment of Gila chub (*Gila intermedia*) in Sabino Creek, Arizona, 45:24–29
Dudleya, 46:2
albiflora, 46:245
Duer, Connie, see Mathis, Alicia, —
Duffy, James G., see Tumlison, Renn, —
Dumetella carolinensis, 43:456
Duranta repens, 43:276
Durfee, Richard S., see McCafferty, W. P., —
Dyer, James M., and K. Evan Moffett, Meadow invasion from high-elevation spruce-fir forest in south-central New Mexico, 44:444–456
Dynamics of species richness and abundance in a montane community of butterflies in southern New Mexico, Stephen B. Hager and Angela D. Stafford, 44:375–378
Dyschirius globulosus, 46:209
Dyschoriste decumbens, 37:51
Dysodia, 42:224
aerrosa, 43:54
pentachaeta, 42:444
Dytiscidae, 41:62, 41:63, 41:384, 43:80, 43:81, 44:24, 44:508

Earl, Richard A., and Dallas L. Bash, Response of alligator juniper (*Juniperus deppeana*, Pinaceae) to historic environmental variability in south central New Mexico, 41: 227–238
Early Pleistocene (Irvingtonian) plants from the Albuquerque area, New Mexico, Paul J. Knight, Spencer G. Lucas, and Anne Cully, 41:207–217
Ebenaceae, 37:198, 43:42
Ebenopsis ebano, 43:42–44
Eberle, Mark E., see Harris, Marsha R., and —
Eberle, Mark E., see Wenke, Thomas L., —
Ebersole, James J., see Terranella, Anthony C., —
Ebinger, John E., and David S. Seigler, Ant-acacia hybrids of Mexico and Central America, 37:408–414
Ecdyurus ramaleyi, 38:260
Echelle, Alice F., see Echelle, Anthony A., —
Echelle, Anthony A., Alice F. Echelle,

Salvador Contreras-Balderas, and Lourdes Lozano-Vilano, Genetic variation in the endangered fish fauna (Atheriniformes: Cyprinodontidae) associated with Pluvial Lake Sandia, Nuevo Leon, Mexico, 40:11–17
Echelle, Anthony A., Christopher W. Hoagstrom, Alice F. Echelle, and James E. Brooks, Expanded occurrence of genetically introgressed pupfish (Cyprinodontidae: *Cyprinodon pecosensis* × *variegatus*) in New Mexico, 42:336–339
Echelle, Anthony A., see Williams, Lance R., —
Echidnophaga gallinacea, 46:96
Echinacea
angustifolia, 37:369, 42:384–399, 44:442
pallida, 42:385, 42:387–390, 45:412, 45:413
tennesseensis, 42:384–399
Echinocactus
horizonthalonius, 40:355, 46:273, 46:280
papyracanthus, 38:229
polycephalus, 46:273
texensis, 42:444, 45:391
Echinocereus, 37:434, 42:444
caespitosa, 45:414
coccineus, 40:428, 42:444
enneacanthus, 40:355, 40:428, 42:444, 43:200
reichenbachii, 42:38, 42:444, 45:387
triglochidiatus, 42:444
Echinochasmus zubedekhaname, 44:224
Echinochloa, 38:166, 38:167, 42:318, 44:438
colonum, 38:170
crus-galli, 45:388, 45:415, 45:417, 45:418
crusgalli, 37:206, 37:207, 39:144
muricata, 45:415
Echinocotyle, 40:325–327
echinocotyle, 39:204, 39:205
Echinodorus rostratus, 45:417, 45:419
Echinoparyphium
flexum, 40:326, 40:327
recurvatum, 39:204, 40:326
recuryatum, 40:327
Echinostoma revolutum, 39:204, 40:326
Echolocation calls and a noteworthy record of *Pteronotus gymnonotus* (Chiroptera, Mormoopidae) from Tabasco, Mexico, Carols Ibáñez, Ricardo Lopez-Wilchis, Javier Juste B., and Miguel Angel León-Galván, 45:345–347
Eciton mexicanum, 44:459
Eclipta alba, 45:415
Ecologia alimenticia de la trucha arcoiris (*Oncorhynchus mykiss nelsoni*) del Arroyo San Rafael, Sierra San Pedro Mártir, Baja California, México, Gorgonio Ruiz-Campos y Patricia Cota-Serrano, 37:166–177
Ecological conditions and the notonectid-fairy shrimp interaction, B. D. Woodward and J. Kiesecker, 39:160–164
Ecological observations on the octodontid rodent, *Tympanoctomys barrerae*, in Argentina, Michael A. Mares, Janet K. Braun, and Rob Channell, 42:488–493
Ecologicas sobre la avifauna de Laguna El Rosario, Baja California, Mexico, notas, Gorgonio Ruiz-Campos y Marcelo Rodríguez-Meraz, 38:59–64
Ecology of the alligator gar, *Atractosteus spatula*, in the Vicente Guerrero Reservoir, Tamaulipas, México, Francisco J. García de León, Leonardo Gonzáles-García, José M. Herrera-Castillo, Kirk O. Winemiller, and Alfonso Banda-Valdés, 46:151–157
Ecology of two microlepidopteran leafrollers in an arid-land riparian forest, Tze-Hei Yong and Clifford S. Crawford, 42:155–161
Ecophysiology of three C_4 perennial grasses in the northern Chihuahuan Desert, R. S. Senock, D. L. Devine, W. B. Sisson, and G. B. Donart, 39:122–127
Ectatomma tuberculatum, 44:459
Ectemnius
satan, 43:251
sonorensis, 43:251
Ectinopus holomelas, 37:109, 37:111
Ectocyclops
phaleratus, 43:258
rubescens, 43:258
Ectopistes migratorius, 45:258
Ectopsocidae, 45:463
Ectopsocus meridionalis, 39:83
Edds, David R., see Bulger, Angela G., and —
Edds, David, see Fuselier, Linda, and —
Edds, David, see Wilkinson, Chris, —
Edrotes
arens, 45:311
barrowsi, 45:308–311
ventricosus, 45:309–311
Edwards, Robert J., see Anderson, Allison A., —
Edwards, Robert J., see Garrett, Gary P., —
Egeria densa, 41:462, 41:463
Egg carrying by a mottled duck, Barry C. Wilson and Paul D. Levesque, 41:444–445
Egg viability and ecology of Devils Hole pupfish: insights from captive propagation, James E. Deacon, Frances R. Taylor, and John W. Pedretti, 40:216–223
Eggs, larvae, and early juveniles of *Etheostoma grahami* (Teleostei: Percidae), C. Aguilera, R. Mendoza, J. Montemayor, and G. Hernandez, 44:214–218
Eggs, larvae, and early juveniles of the bigscale logperch, *Percina macrolepida* Stevenson, from the west fork of the Trinity River basin, Texas, description of, Thomas P. Simon and Joseph B. Kaskey, 37:28–34
Egretta
caerulea, 41:341, 43:497
thula, 38:60, 38:61, 38:63, 41:341, 43:497
tricolor, 38:61, 38:63, 41:341, 43:497
Ehleringer, James R., see Sandquist, Darren R., —
Eichholz, Michael W., and Walter D. Koenig, Gopher snake attraction to birds' nests, 37:293–298
Eichhornia, 41:463, 42:432
Eichornia crassipes, 38:169
Eitniear, Jack C., Sergio Aquilar R., Victor Gonzalez, Roberto Pedraza R., and John T. Baccus, New records of bearded wood-partridge, *Dendrortyx barbatus*, (Aves: Phasianidae) in Mexico, 45:238–241
Elaeagnus
angustiflia, 42:138
angustifolia, 40:289, 41:49, 42:13, 43:470, 44:226, 44:256–260, 44:278, 44:279, 45:160, 45:457
Elanoides forficatus, 40:419, 42:103–105
Elanus
caeruleus, 37:396
leucurus, 37:395
Elaphe
guttata, 42:330, 43:10
obsoleta, 37:296, 40:170, 40:203–207, 41:183, 42:233, 42:331, 43:10, 46:57
obsoletta, 39:382
subocularis, 42:329–332
Elaphoidella
bidens, 43:259
grandidieri, 43:259
Elassomatidae, 40:316
Elateridae, 45:464, 46:241
Eleagnus angustifolia, 42:155, 42:156, 46:312
Eleocarpaceae, 43:74
Eleocharis, 37:206, 37:208, 37:369, 38:166, 38:167, 42:224, 42:319, 44:432, 44:439–441
acuminata, 45:415
atropurpurea, 44:439
caribaea, 45:437
compressa, 44:438
erythropoda, 40:137
flavescens, 42:118

geniculata, 45:441
macrostachya, 37:299, 37:400, 44:437, 44:438, 44:443, 45:389, 45:414, 45:415, 45:418, 45:420
montevidensis, 45:415, 45:435, 45:441
obtusa, 44:267, 45:439
tenuis, 45:415, 45:420
Eleodes, 39:92, 39:93, 40:344, 42:359, 42:361
armatus, 45:309
extricata, 42:352, 44:379, 44:380
extricatus, 45:464
fusiformis, 42:352, 45:464, 46:209
goryi, 37:107, 37:111, 37:113
hispilabris, 42:353
knausii, 37:107, 37:111
longicollis, 42:353, 42:354, 45:464
obscura, 42:352–354, 44:379, 44:380
obsoleta, 42:352, 44:379, 44:380
obsoletus, 45:464
quadricollis, 37:107, 37:115
sponsus, 45:464
suturalis, 42:353, 42:354, 45:464
tricostata, 42:353
Eleotridae, 44:169
Eleotris pisonis, 44:169
Elephantopus carolinianus, 45:404
Eleutherodactylus mexicanus, 40:122
Elevational variation in age at maturity in *Sceloporus jarrovi*: an experimental evaluation, Royce E. Ballinger, Geoffrey R. Smith, and Joseph W. Nietfeldt, 41:179–182
Elgaria
kingi, 40:188, 40:190
multicarinata, 39:174
Elias, Scott A., and Thomas R. Van Devender, Insect fossil evidence of late Quaternary environments in the northern Chihuahuan Desert of Texas and New Mexico: comparisons with the paleobotanical record, 37:101–116
Elias-Gutiérrez, M., see Sarma, S. S. S., and —
Eliason, Julie J., see White, P. J., —
Eligmodontia
hirtipes, 44:329, 44:330
puerulus, 44:330
typus, 42:491, 44:330
Elimia potosiensis, 37:317
Ellipsaria lineolata, 41:326, 41:327
Elliptio, 43:329
dilatata, 41:325, 41:326
Ellis, Lisa M., Clifford S. Crawford, and Manuel C. Molles, Jr., Rodent communities in native and exotic riparian vegetation in the middle Rio Grande Valley of central New Mexico, 42:13–19
Ellis, Lisa M., Manuel C. Molles, Jr., Clifford S. Crawford, and Frederick Heinzelmann, Surface-active arthropod communities in native and exotic riparian vegetation in the middle Rio Grande Valley, New Mexico, 45:456–471
Elmidae, 37:170, 38:158, 41:70, 41:71, 42:496–497, 44:24, 44:508
Elodea, 44:213, 44:443
Elops affinis, 45:514, 45:516, 45:520
Elrod, Diana M. A., see Elrod, Douglas A., —
Elrod, Douglas A., and Michael L. Kennedy, Microgeographic variation in morphometric characters of the white-footed mouse, *Peromyscus leucopus*, 40:42–49
Elrod, Douglas A., Gary A. Heidt, Diana M. A. Elrod, Melaney Birdsong, and Earl G. Zimmerman, A second species of pocket gopher in Arkansas, 41:395–398
Elsey, Ruth M., and Noel Kinler, Range extension of the American beaver, *Castor canadensis*, in Louisiana, 41:91–93
Elymus, 43:138, 46:286
canadensis, 45:411
elymoides, 46:285–287, 46:291
pilosa, 45:401, 45:403
villosa, 45:403
virginicus, 44:430, 45:400, 45:404
Embaphion, 45:464
contusum, 42:352
depressa, 45:309
muricatum, 42:352
planum, 37:108
Emberizidae, 38:63, 42:140, 42:227, 44:535–538
Embiotoca, 38:221
Embiotocidae, 38:221
Emblyna cornupeta, 46:209
Empicoris orthoneuron, 45:463
Empididae, 41:384, 44:24
Empidonax
difficilis, 37:347
fulvifrons, 45:173
oberholseri, 40:80, 42:140, 43:456
occidentalis, 40:80
traillii, 42:140, 42:144, 42:226, 44:226–231, 45:173
wrightii, 40:357
Emydidae, 43:9, 46:230
Emydoidea blandingii, 46:233
Enallagma, 39:371
Encalypta
intermedia, 45:229
vulgaris, 45:229
Enceliа
californica, 46:5
farinosa, 38:198, 38:208, 38:212–216, 38:346, 39:270, 39:365, 42:340, 44:354, 45:451
Encentrum saundersiae, 45:369, 45:371, 45:372Enchytraeidae, 44:515, 44:516
Encilia farinosa, 46:346
Encoptolophus sordidus, 46:207, 46:209
Encyonema triangulum, 46:203
Endangered desert pupfish (*Cyprinodon macularius*, Cyprinidontidae) in Cienega de Santa Clara, Mexico, following an extensive marsh drydown, presence of the, Scott A. Zengel and Edward P. Glenn, 41:73–78
Endangered Mexican kit fox (*Vulpes macrotis zinseri*) to North American arid-land foxes based on mitochondrial DNA sequence data, relationships of the, Jesús E. Maldonado, Mauricio Cotera, Eli Geffen, and Robert K. Wayne, 42:460–470
Endogone, 38:225
Endoparasites of the ringed salamander, *Ambystoma annulatum* (Caudata: Ambystomatidae), in Arkansas, Chris T. McAllister, Stanley E. Trauth, and Betty G. Cochran, 40:327–330
Endrotes rotundus, 37:107, 37:113
Engelmannia pinnatifida, 43:196, 45:402, 45:406, 45:409
Engeman, Richard M., see Villa-C., Beatriz, and —
Engeman, Richard M., see Villa-Cornejo, Beatriz, —
Engraulidae, 39:263–268, 44:168
Engraulis mordax, 38:220, 38:221
Engstrom, Mark D., Burton K. Lim, and Fiona A. Reid, Two small mammals new to the fauna of El Salvador, 39:281–283
Engstrom, Mark D., Fiona A. Reid, and Burton K. Lim, New records of two small mammals from Guatemala, 38:80–82
Enhydra lutris, 45:322–328
Enochrus, 42:261
Enriqueltrania crenatifolia, 45:79
Enterobacter
aerogenes, 38:74, 38:75
agglomerans, 38:74, 38:75
cloacae, 38:32, 38:33
Enterolobium cyclocarpum, 40:30, 45:302
Enteroplea lacustris, 45:369–372
Entomoneis
alata, 46:203
paludosa, 46:202, 46:203
robusta, 46:203
Entosphenus, 41:366
Entosthodon
bolanderi, 45:228
planoconvexus, 45:229
wigginsii, 45:229
Enulius flavitorques, 39:172
Environmental correlates of distribution and abundance for *Lythrurus snelsoni*: a range-wide analysis of an endemic fish species, Christopher

M. Taylor and Philip W. Lienesch, 40:373–378
Environmental notes on the recently described crawfish, *Procambarus* (*Girardiella*) *kensleyi* Hobbs, J. F. Fitzpatrick, Jr. and Royal D. Suttkus, 37:328–330
Enyaliosaurus
clarki, 39:171
quinquecarinatus, 39:171
Eodipodomys celtiservator, 37:234
Eosphora
najas, 45:369
thoides, 45:369–372
Epargyreus clarus, 44:377, 44:378
Epeorus, 44:24
albertae, 38:260
deceptivus, 38:260, 38:261
longimanuus, 38:261
longimanus, 38:261
memorialis, 38:263
Ephedra, 38:44, 38:48, 38:226, 38:228, 45:444, 46:6
antisyphilitca, 45:391
antisyphilitica, 38:151, 43:200
californica, 46:4, 46:5
nevadensis, 37:114, 43:408, 45:185
torreyana, 44:195
trifurca, 43:165, 43:166, 43:270
viridis, 43:138, 43:397
Ephedraceae, 46:6
Ephemera
compar, 38:264
simulans, 38:264, 39:60
Ephemerella, 39:60, 39:61, 39:251
apopsis, 38:265
aurivilii, 38:265, 38:269
coloradensis, 38:264
doddsi, 38:265
grandis, 38:265
hecuba, 38:266, 38:267
inermis, 38:265, 38:266, 38:269
infrequens, 38:266
margarita, 38:264
micheneri, 38:266
needhami, 38:265
tibialis, 38:266
Ephemerellidae, 38:264, 38:269, 39:611, 42:151
Ephemeridae, 38:264, 38:269, 39:61
Ephemeroptera, 38:252–274, 39:58–62
Ephoron album, 38:264, 39:60
Ephuta sudatrix, 43:254
Ephydatia muelleri, 44:211–212
Ephydridae, 37:268–273, 38:170
Epicauta
ingrata, 46:209
pardalis, 46:209
Epicrates cenchris, 42:331
Epilobocera situatifrons, 43:72
Epinysson mellipes, 43:251
Epiphytic diatoms on *Cladophora glomerata* in the Colorado River, Arizona: longitudinal and vertical distribution in a regulated river, G. G. Hardwick, D. W. Blinn, and H. D. Usher, 37:148–156
Epitedia
stanfordi, 46:95
wenmanni, 46:95
Epithelantha micromeris, 40:428, 42:444
Epithemia
argus, 46:203
turgida, 46:203
Epithemiaceae, 37:151
Epomidiostomum uncinatum, 39:205
Eptesicus, 38:113, 38:115
brasiliensis, 38:112
diminutus, 38:112, 44:327, 44:328
furinalis, 38:112, 40:34, 44:326, 44:327, 45:342–344
fuscus, 38:111, 38:112, 38:116, 39:177, 44:414, 44:495, 44:497, 44:501–504, 44:506, 45:350, 45:526, 46:380
hemphillensis, 38:111, 38:112
innoxius, 38:112
Equisetum, 38:291, 44:342
arvense, 40:137, 43:208, 43:212
hyemale, 44:441
laevigatum, 40:137, 45:410
Equus, 37:54, 37:62
asinus, 38:198, 46:346
caballus, 42:25, 43:163–169, 46:183–190
conversidens, 37:60, 37:61
cumminsii, 41:207
excelsus, 41:190
occidentalis, 42:313
scottii, 41:207
simplicidens, 38:116
tau, 37:60
Eragrostis, 44:1, 46:396
curvula, 37:74, 39:2, 39:4, 45:387, 45:388, 45:392, 45:416
hypnoides, 38:166, 38:167, 45:415, 45:419
intermedia, 37:49–52, 37:73, 39:22, 42:189, 42:443
lehmani, 38:43
lehmanniana, 37:74, 43:449, 43:450, 45:90
secundiflora, 44:266, 44:431, 45:435, 45:437, 45:442
spectabilis, 45:419
trichodes, 40:137, 46:296
Eremarionta immaculata, 45:450–455
Eremobates
arizonica, 45:443
bajadae, 45:445–447
durangonus, 43:294
kiseri, 45:447
marathoni, 43:291–295, 43:296–299, 45:447
mimbrenus, 45:448
mormonus, 45:447
nodularis, 45:445–447
norrisi, 45:447
pallipes, 45:443, 45:445–448
palpisetulosus, 43:294, 45:447
scaber, 45:448
similis, 45:445–447
simoni, 45:443, 45:445, 45:446, 45:448
zinni, 45:448
Eremobatidae, 43:291–295, 43:296–299
Eremochelis bilobatus, 45:445–448
Eremophila alpestris, 37:73, 37:388, 37:398, 37:400, 38:46, 40:347, 40:357, 42:226, 44:486
Eremorhax
gigasellus, 45:445, 45:446, 45:448
magnus, 43:296
Erethizon dorsatum, 37:325, 44:400–404, 45:335, 46:119
Ergasilidae, 38:170
Eriastrum diffusum, 38:208
Ericaceae, 44:507, 46:403
Ericameria, 46:195
austrotexana, 43:276, 43:277
Erigeron
bellidiastrum, 40:137
canadensis, 45:419
divergens, 37:51, 37:52
formosissimus, 43:210, 43:214
melanocephalus, 43:208, 43:211
modestus, 45:105
procumbens, 45:435, 45:437, 45:441
Eriogonum, 46:241
Erinnyis obscura, 39:339
Erinnys obscura, 39:339
Eriocaulon kornickianum, 42:118, 45:416
Eriochloa, 38:151
sericea, 41:184, 41:251, 41:253, 44:7
Eriodictyon
tomentosum, 39:130, 39:134
trichocalyx, 42:340
Eriogonum, 38:198, 38:208, 38:225, 38:227, 38:229
annuum, 40:137, 43:450, 44:431, 44:432, 45:409, 45:412
effusum, 44:101, 44:436, 46:211
fasciculatum, 41:131, 42:340, 42:359, 42:360, 46:4
fascilatum, 46:245
jamesii, 45:414
Erioneuron pilosum, 45:105
Erioneuron
pilosum, 41:251, 41:253, 42:443, 44:7
puchellum, 39:345
pulchellum, 38:43, 38:201, 39:346, 41:240, 43:54, 43:450, 43:451, 45:315, 45:316
Eritettix simplex, 37:364, 37:368, 39:22
Ermophila alpestris, 40:98
Ernsting, Guy W., see Wenke, Thomas L., —
Erodium, 39:166, 40:87
cicutarium, 38:208, 39:91, 40:360, 41:130, 42:359–361, 44:368, 46:67
Erpetogomphus, 44:25
Erpobdella, 38:159
Eryngium
leavenworthii, 45:413

yuccifolium, 45:411, 45:412
Erynnis
telemachus, 44:376–378
zarucco, 39:142
Erysimum capitatum, 44:375
Erythrina flabelliformis, 44:142
Erythronium rostratum, 39:38
Escalente-Pliego, Patricia, see Macouzet, Tania M., and —
Eschscholtzia, 46:5
Escobar, David E., see Everitt, James H., —
Escobar, David E., see Lonard, Robert I., —
Esenbeckia runyonii, 44:458
Esocidae, 40:316
Esox lucius, 37:358, 46:162, 46:163
Espinosa Organista, David, see Morrone, Juan J., —
Espinosa Pérez, Héctor, see Fabiola Guzmán, Ana, —
Espinosa-Huerta, Elsa, Luis García-Prieto, and Gerardo Pérez-Ponce de León, Helminth community structure of *Chirostoma attenuatum* (Osteichthyes: Atherinidae) in two Mexican lakes, 41:288–292
Estimates of abundance of cetaceans in offshore waters of the northwestern Gulf of Mexico, 1992–1993, Thomas A. Jefferson, 41:279–287
Estimating burrow volume and excavation rate of pocket gophers (Geomyidae), K. Shawn Smallwood and Michael L. Morrison, 44:173–183
Estimating population size in the banner-tailed kangaroo rat, Chad L. Cross and Peter M. Waser, 45:176–183
Estimating the number of female *Ambystoma annulatum* (Caudata: Ambystomatidae) based on oviposition, Chris L. Peterson, Robert F. Wilkinson, Don Moll, and Tom Holder, 37:425–426
Estrus in a female Abert Squirrel (*Sciurus aberti aberti*), early, Sylvester Allred and Gilbert Pogany, 41:90–91
Etadonomys tiheni, 37:238
Etchberger, Richard C., and Paul R. Krausman, Frequency of birth and lambing sites of a small population of mountain sheep, 44:354–360
Etchberger, Richard C., see Krausman, Paul R., —
Etchberger, Richard C., see Mazaika, Rosemary, —
Etheostoma, 40:319
boschungi, 40:422, 40:424
chlorosomum, 43:338
collettei, 44:106
cragini, 40:422, 40:424
exile, 40:212, 42:283
fonticola, 37:196, 40:208–215, 40:433
fusiforme, 40:212
gracile, 40:212
grahami, 37:180–185, 37:262–266, 42:265, 42:266, 42:268–272, 42:275, 44:214–218, 46:217, 46:218
lepidum, 44:217
lugoi, 44:217
microperca, 40:212
nigrum, 42:283, 42:284
pallididorsum, 40:422–425
praeliare, 40:212, 43:338
punctulatum, 40:424
radiosum, 37:142, 37:143, 37:145, 38:302, 43:340
segrex, 44:217
spectabile, 37:32, 37:33, 37:142, 37:143, 37:145, 40:214, 41:69–73, 41:301, 41:304, 45:279, 45:280, 45:282, 45:285
trisella, 40:422, 40:424
vivax, 43:338
Ethestoma spectabile, 41:302
Eubosmina coregoni, 43:95–96, 46:215
Eubranchipus
bundyi, 42:263
moorei, 42:259, 42:260, 42:262, 42:263
neglectus, 42:259–263
serratus, 42:259, 42:260, 42:262
vernalis, 42:260
Eucalyptus caesia, 43:368
Eucapnopsis brevicauda, 39:251
Euchlanidae, 45:368
Euchlanis
dilatata, 45:368
incisa, 45:368
Eucinostomus
argenteus, 44:168
gula, 44:168
harengulus, 44:168
jonesi, 44:168
melanopterus, 44:168
Eucladium verticillatum, 45:229
Eucnemidae, 45:464
Eucometis penicillata, 43:232
Euconulus fulvus, 42:472, 42:473, 42:476
Eucyclops
agilis, 43:256–258, 43:261
bondi, 43:258
conrowae, 43:257, 43:258
elegans, 43:258
festivus, 43:258
prionophorus, 43:258
serrulatus, 43:258
Euderma, 38:117
maculatum, 42:99–101, 43:266–269, 45:347–352, 46:371, 46:380–383
Euderma maculatum (Chiroptera: Vespertilionidae) in New Mexico, new locality for, Travis W. Perry, Paul M. Cryan, Steven R. Davenport, and Michael A. Bogan, 42:99–101
Eudocimus albus, 43:497
Euhoplopsyllus glacialis, 46:96
Eulimnadia, 42:261
Eulonchidae, 42:186
Eumeces, 39:92
brevirostris, 39:172
callicephalus, 40:188
copei, 39:172, 41:103–110
dicei, 41:103, 41:104
egregius, 41:104
gilberti, 42:233
inexpectatus, 39:382
lynxe, 41:103, 41:104
multivirgatus, 43:9
obsoletus, 41:109, 43:443, 43:445, 46:173, 46:174
Eumolpianus
cyrturus, 46:95
eumolpi, 46:95
Eumops
auripendulus, 38:115
bonariensis, 40:34
glaucinus, 44:326
hansae, 37:428
patagonicus, 44:326, 44:327
perotis, 38:111, 38:113–115, 38:117, 43:266, 44:345
underwoodi, 38:115
Euonymus
atropurpurea, 45:400
atropurpureus, 44:427
Euparyphus, 44:24
Eupatorium
azureum, 43:276, 43:277
maculatum, 44:441
odoratum, 43:275–277, 45:15
serotinum, 45:18, 45:19, 45:408, 45:411
Eupeodes volucris, 39:339
Euphagus cyanocephalus, 37:297, 37:399, 37:400, 39:287, 39:326, 40:94, 40:97, 40:358, 43:457
Euphonia
gouldi, 43:232
hirundinacea, 43:232
Euphorbia, 38:224, 38:225, 38:226, 38:228, 38:229, 38:231–233, 46:240–242
antisiphyllitica, 43:39
antisyphilitica, 37:275, 42:224
cordifolia, 44:267
corollata, 37:369
cyathophora, 45:103
magdalenae, 37:282
marginata, 40:162, 45:414, 45:419
misera, 46:5, 46:245
missurica, 40:137
serpens, 45:103
Euphorbiaceae, 43:276, 45:18, 45:95, 45:441, 46:240, 46:403
Euphoria histrionica, 46:209
Euphractus, 39:378
Euphydryas anicia, 44:375, 44:377
Eupsophulus castaneus, 45:309
Euptoieta claudia, 44:378
Eurema

mexicanum, 44:378
nicippe, 39:142, 40:429, 44:378, 45:289, 45:291–293, 45:295
Eurybunus, 38:239
Eurycea
bislineata, 40:433
cirrigera, 46:110
longicauda, 40:433
lucifuga, 40:433
multiplicata, 40:112
nana, 37:196, 40:430–434
neotenes, 40:433
pterophila, 40:433
quadridigitata, 43:7
Eurylehmis monorchis, 40:114
Eurylophella, 38:269
temporalis, 39:60–62
Euryopis, 45:462
Eurypelma longipes, 45:128
Eusattus, 37:108
convexus, 46:209
difficilis, 45:309
dubius, 45:309, 45:311
muricatus, 45:308, 45:309, 45:311
Euschistus, 45:293
Euspilotus assimilis, 45:464
Eustrongylides, 41:289, 41:290
Eutamias, 45:173
amoenus, 43:353
dorsalis, 39:54, 39:55, 39:383
merriami, 39:131, 39:132
sibiricus, 43:353, 43:360
Evax
multicaulis, 44:11, 44:12, 44:14
prolifera, 45:95, 45:102, 45:103
verna, 42:444
Everes
amyntula, 44:378
comyntas, 44:378
Everitt, James H., Frank W. Judd, David E. Escobar, Mario A. Alaniz, Michael R. Davis, and William MacWhorter, Using remote sensing and spatial information technologies to map sabal palm in the Lower Rio Grande Valley of Texas, 41:218–226
Everitt, James H., see Lonard, Robert I., —
Evolvulus, 37:51, 45:91–93
nuttallianus, 42:391
Evorthodus lyricus, 44:169
External bacteria of hibernating *Myotis velifer* (Chiroptera: Vespertilionidae), D. J. Zanowiak, T. P. Harrison, and W. Caire, 38:73–76
Extinct musk ox from western Oklahoma, Henry J. Kirkland, Jr. and Julian Hilliard, 41:190–191
Extralimital population of *Lampetra appendix* (Petromyzontidae) in southwestern Arkansas, an, Renn Tumlison and Creed Tumlison, 44:106–108
Eyeless, cavernicolous *Albiorix* (Pseudoscorpionida: Ideoroncidae) in Arizona, with observations on its biology and ecology, description of an, William B. Muchmore and Robert B. Pape, 44:138–147
Ezcurra, Exequiel, see Gallina, Sonia, and —
Ezcurra, Exequiel, see Valverde, Pedro Luis, —

Fabaceae, 37:408–414, 41:169, 42:490, 44:507, 45:18, 45:290, 45:431, 45:436, 45:440, 45:441, 46:402
Faber-Langendoen, Don, see Lauver, Chris L., —
Fabiola Guzmán, Ana, Héctor Espinosa Pérez, and Robert Rush Miller, Occurrence of the clingfish, *Gobiesox fluviatilis* (Gobiesociformes: Gobiesocidae), in the Río Chapalagana, México: confirmation of a historical record, 46:96–98
Fabiola Guzmán, Ana, see Polaco, Oscar J., and —
Factors affecting loss in mass of creosotebush leaf-litter on the soil surface in the northern Chihuahuan Desert, W. P. MacKay, S. J. Loring, J. C. Zak, S. I. Silva, F. M. Fisher, and W. G. Whitford, 39:78–82
Factors affecting the diet and abundance of northern populations of Rio Grande sucker (*Catostomus plebeius*), Susan M. Swift-Miller, Brett M. Johnson, and Robert T. Muth, 44:148–156
Factors influencing size of the wintering mallard population in the San Luis Valley, Colorado, Clinton W. Jeske, 38:155–156
Factors limiting the distributions of native fishes in the Little Colorado River, Grand Canyon, Arizona, Anthony T. Robinson, Dennis M. Kubly, Robert W. Clarkson, and Edward D. Creef, 41:378–387
Facultative mutualism between imported fire ants (*Solenopsis invicta*) and a legume (*Senna occidentalis*), Robert R. Fleet and Brenda L. Young, 45:289–298
Faeth, Stanley H., and Robert F. Rooney, III, Variable budbreak and insect folivory of Gambel oak (*Quercus gambelii*: Fagaceae), 38:1–8
Faeth, Stanley H., see Koenig, Walter D., and —
Fagaceae, 38:1–8, 41:209, 45:441, 46:240, 46:286
Fagerlund, Richard A., Paulette L. Ford, and Paul J. Polechla, Jr., New records for fleas (Siphonaptera) from New Mexico with notes on plague-carrying species, 46:94–96
Fagerlund, Richard A., see Brantley, Sandra L., —
Fagus grandifolia, 42:504, 45:388, 45:400
Fair, Jeanne M., see Kennedy, Patricia L., —
Fairbanks, W. Sue, see Lee, Thomas, E., Jr., and —
Fairy shrimp, 38:85–86, 38:389–390, 39:160–164, 42:259–264
Fairy shrimp (Crustacea: Anostraca) from Baja California, Mexico, new records of, John W. Brown, Harold A. Wier, and Denton Belk, 38:389–390
Fairy shrimps (Anostraca) from Sonora, Mexico, additional distribution records of, Jose Campoy-Favela and Adrian Quijada Mascareñas, 38:85–86
Fairy shrimps (Branchiopoda: Anostraca) of Arkansas, first report on the, George L. Harp, Gene Leeds, and Henry W. Robison, 42:259–264
Falcaustra cateshvianae, 45:362–365
Falco
columbarius, 37:397, 44:486
mexicanus, 37:395, 37:397
peregrinus, 37:188–193, 39:183, 40:94–100, 41:332
sparverius, 37:388, 37:397, 38:46, 41:188, 42:225, 44:486
Falconidae, 42:225
Fallacia pygmaea, 46:203
Falleon quilleri, 38:258
Fallugia paradoxa, 39:292, 43:54, 43:470, 45:67, 45:444
Farley, Greg H., Observation of a ruby-crowned kinglet (*Regulus calendula*) roosting in a verdin (*Auriparus flaviceps*) nest in winter, 38:72–73
Farrar, Ronald W., see Haner, Thomas W., —
Farris, Jerry L., see Johnson, Ronald L., —
Faunal use of nest boxes in the Ouachita Mountains of central Arkansas, Paul T. Caster, Gary A. Heidt, and Karen D. Stone, 39:380–382
Fausch, Kurt D., see Lohr, Samuel C., and —
Fawning habitat of desert mule deer, Kevin B. Fox and Paul R. Krausman, 39:269–275
Fedynich, Alan M., and Olin E. Rhodes, Jr., Mallard × American wigeon hybrid on the southern High Plains of Texas, 38:179–181
Fedynich, Alan M., see Beheler, Amanda S., —
Fedynich, Alan M., see Glass, Jason W., —

Feeding and foraging of *Callisaurus draconoides* (Sauria: Phrynosomatidae) in the intertidal zone of coastal Sonora, Adrián Quijada-Mascareñas, 37:311–314
Feeding ecology of an insular population of the black-tailed jackrabbit (*Lepus californicus*) in the Gulf of California, Donald B. Hoagland, 37:280–286
Feeding ecology of three omnivorous fishes in Lake Texoma (Oklahoma-Texas), Keith B. Gido, 46:23–33
Feeding flights of cattle egrets nesting in an agricultural ecosystem, Miguel A. Mora, 42:52–58
Felidae, 40:226
Felis
cattus, 38:352, 40:226, 43:474, 44:83
chaus, 40:153
concolor, 37:324–326, 37:393, 38:65–67, 38:341, 39:67–72, 39:305–306, 40:101, 42:95, 46:183–190
lynx, 42:234
pardalis, 42:234, 43:104
pardus, 44:190
rufus, 37:393, 38:336–344, 39:208, 39:305, 40:101, 40:288, 42:175, 45:206, 45:335
silvestris, 40:153, 41:459
sylvestris, 41:188
Fellers, Gary M., Predation on *Corynorhinus townsendii* by *Rattus rattus*, 45:524–527
Fellers, Gary M., Species diversity, selectivity, and habitat associations of small mammals from coastal California, 39:128–136
Felley, James D., and Gwendolyn L. Daniels, Life history of the sailfin molly (*Poecilia latipinna*) in two degraded waterways of southwestern Louisiana, 37:16–21
Felley, James D., see Daniels, Gwendolyn L., and —
Fevesa attenuata, 38:82
Ferguson, Mark T., see Zale, Alexander V., —
Fernández, Guillermo, Roberto Carmona, and Horacio de la Cueva, Abundance and seasonal variation of western sandpipers (*Calidris mauri*) in Baja California Sur, Mexico, 43:57–61
Ferocactus, 39:99
acanthodes, 38:208
cylindraceus, 39:365, 45:451, 46:5, 46:273, 46:280
emoryi, 46:273, 46:280
wislizeni, 46:272–281
wislizenii, 44:354, 44:356
Ferris, David K., M. J. Killion, K. P. Ferris, W. E. Grant, and S. B. Vinson, Influence of relative abundance of red imported fire ants (*Solenopsis invicta*) on small mammal captures, 43:97–100
Ferris, K. P., see Ferris, David K., —
Ferrissia, 43:283
Festuca, 40:87, 42:215, 44:1
amolissima, 42:345
arizonica, 46:285–287, 46:291
arundinacea, 42:393, 45:388, 45:416
megalura, 41:130
minutiflora, 43:211
octoflora, 40:137, 45:420
thurberi, 44:445
Ffolliott, Peter F., see Borelli, Simone, —
Ffolliott, Peter F., see Touchan, Ramzi, and —
Fibricola, 46:223–225, 46:227–229
Ficimia
olivacea, 39:174
publia, 39:174
ruspatur, 39:174
Ficken, Millicent S., see Nocedal, Jorge, and —
Ficken, Millicent Sigler, Call similarities among mixed species flock associates, 45:154–158
Ficus, 38:81, 38:179, 39:281, 40:30, 41:458, 43:276, 44:112, 44:202
continifolia, 44:58
padifolia, 45:302
petiolaris, 44:58
Filaroidea, 42:329–332
Fimbriaria fasciolaris, 39:204, 39:205, 40:326
Fimbristylis, 45:434
caroliniana, 45:441
carolinianum, 45:435
castanea, 44:262, 44:266, 45:435, 45:437–439, 45:441
puberula, 37:368, 37:369, 42:118
Finch, Deborah M., see Kelly, Jeffrey F., —
Finch, Deborah M., see Yong, Wang, and —
Findley, James S., see Kirkland, Gordon L., Jr., and —
Fiorillo, Riccardo A., R. Brent Thomas, Melvin L. Warren, Jr., and Christopher M. Taylor, Structure of the helminth assemblage of an endemic madtom catfish (*Noturus lachneri*), 44:522–526
Fire and grazing on forbs in the western South Texas Plains, effect of, Donald C. Ruthven, III, James F. Gallagher, and David R. Synatzske, 45:89–94
Fire on southwestern riparian plant community structure, effects of, David E. Busch, 40:259–267
Fish assemblage structure from 20 years of collections in the Kiamichi River, Oklahoma, Mark Pyron, Caryn C. Vaughn, Matthew R. Winston, and Jimmie Pigg, 43:336–343
Fish fauna of the Bavícora Basin, Chihuahua, Mexico, Jerome A. Stefferud and David L. Propst, 41:446–450
Fish species composition in the central Platte River, Nebraska, James W. Chadwick, Steven P. Canton, Don J. Conklin, Jr., and Paul L. Winkle, 42:279–289
Fisher, F. M., see MacKay, W. P., —
Fisher, William L., see Paukert, Craig P., and —
Fisher, William L., see Williams, Lance R., —
Fitzgerald, Christopher S., Paul R. Krausman, and Michael L. Morrison, Short-term impacts of prescribed fire on a rodent community in desert grasslands, 46:332–337
Fitzgerald, Lee A., see Sugg, Derrick W., —
Fitzhugh, E. Lee, see Gorenzel, W. Paul, —
Fitzpatrick, J. F., Jr., and Royal D. Suttkus, Environmental notes on the recently described crawfish, *Procambarus* (*Girardiella*) *kensleyi* Hobbs, 37:328–330
Flaveria brownii, 45:431, 45:435, 45:436, 45:439, 45:441
Fleas (Siphonaptera) from New Mexico with notes on plague-carrying species, new records for, Richard A. Fagerlund, Paulette L. Ford, and Paul J. Polechla, Jr., 46:94–96
Fleeger, John W., see Toepfer, Conrad, and —
Fleet, Robert R., and Brenda L. Young, Facultative mutualism between imported fire ants (*Solenopsis invicta*) and a legume (*Senna occidentalis*), 45:289–298
Fleming, Theodore H., Merlin D. Tuttle, and Margaret A. Horner, Pollination biology and the relative importance of nocturnal and diurnal pollinators in three species of Sonoran Desert columnar cacti, 41:257–269
Flood on fishes of Sabino Creek, Arizona, effects of a record, Robert K. Dudley and William J. Matter, 44:218–221
Flooding on recruitment of roundtail chub, *Gila robusta*, in a southwestern river, effects of, Mark J. Brouder, 46:302–310
Flores, Joel, and Enrique Jurado, Germination and early growth traits of

14 plant species native to northern Mexico, 43:40–46
Flores, Jorge, see Roberts, Heather R., —
Flores-Maldonado, Karla Y., Sherman A. Phillips, Jr., and Gerardo Sánchez-Ramos, The myrmecofauna (Hymenoptera: Formicidae) along an altitudinal gradient in the Sierra Madre Oriental of northeastern Mexico, 44:457–461
Floridichthys polyommus, 44:168
Floristic and life-form diversity along an altitudinal gradient in an intertropical semiarid Mexican region, Carlos Montaña and Alfonso Valiente-Banuet, 43:25–39
Florisuga mellivora, 43:231
Floscularia, 37:339, 37:340
Flourencia cernua, 37:387, 39:343, 41:140–144, 41:425, 41:427, 43:54, 45:315
Flourensia cernua, 46:333
Foeniculum vulgare, 39:258, 39:354, 44:349, 45:508
Fonteyn, Paul J., see Power, Paula, and —
Fontinalis antipyretica, 45:229
Food habits of black bear in the San Gabriel Mountains of southern California, Cynthia H. Stubblefield, 38:290–293
Food habits of black bears in Big Bend National Park, Susan F. McClinton, Philip L. McClinton, and Jim V. Richerson, 37:433–435
Food habits of four benthic fish species (*Etheostoma spectabile, Percina caprodes, Noturus exilis, Cottus carolinae*) from Northwest Arkansas streams, Edward C. Phillips and Raj V. Kilambi, 41:69–73
Food habits of introduced rainbow trout (*Oncorhynchus mykiss*) in the upper Little Missouri River drainage of Arkansas, Christopher Metcalf, Frank Pezold, and Betty G. Crump, 42:148–154
Food habits of nesting common ravens in the eastern Mojave Desert, Richard J. Camp, Richard L. Knight, Heather A. L. Knight, Michael W. Sherman, and Jack Y. Kawashima, 38:163–165
Food habits of paedomorphic mole salamanders, *Ambystoma talpoideum* (Caudata: Ambystomatidae), from northeastern Arkansas, Chris T. McAllister and Stanley E. Trauth, 41:62–64
Food habits of sympatric rodents in the shinnery oak-mesquite grasslands of southeastern New Mexico, Troy L. Best, Marian P. Skupski, and Richard A. Smartt, 38:224–235
Food habits of the Chiricahua fox squirrel (*Sciurus nayaritensis chiricahuae*), John L. Koprowski and Michelle C. Corse, 46:62–65
Food habits within the Laguna Chichancanab *Cyprinodon* (Pisces: Cyprinodontidae) species flock, Michael M. Stevenson, 37:337–343
Food provisioning by island foxes, *Urocyon littoralis*, to conspecifics caught in traps, David K. Garcelon, Gary W. Roemer, R. Brand Philips, and Timothy J. Coonan, 44:83–86
Food-item use by coyotes at the Naval Petroleum Reserves in California, Brian L. Cypher, Kenneth A. Spencer, and Jerry H. Scrivner, 39:91–95
Foods of northern bobwhites (*Colinus virginianus*) in southeastern New Mexico, John L. Hunt and Troy L. Best, 46:239–243
Foquieria diguetii, 37:282
Forage availability for mountain sheep in Pusch Ridge Wilderness, Arizona, Rosemary Mazaika, Paul R. Krausman, and Richard C. Etchberger, 37:372–378
Foraging distance for a spotted bat (*Euderma maculatum*) in northern Arizona, long, Michael J. Rabe, Melissa S. Siders, C. Richard Miller, and Tim K. Snow, 43:266–269
Foraging patterns of the least tern (*Sterna antillarum*) in north-central Oklahoma, Sara H. Schweitzer and David M. Leslie, Jr., 41:307–314
Ford, Paulette L., and Norman J. Scott, Jr., *Thiothrix* sp. (Beggiatoaceae) from tadpoles in western Mexico, 41:328–331
Ford, Paulette L., see Brantley, Sandra L., —
Ford, Paulette L., see Fagerlund, Richard A., —
Forelius, 42:230, 42:231
fortidus, 37:431, 37:432, 42:229
pruinosus, 46:397, 46:399
pruinosum, 38:138, 41:141, 41:142, 42:229, 44:281, 44:459
Forest communities at Fraser Experimental Forest, Colorado, Laurie Stroh Huckaby and W. H. Moir, 43:204–218
Forest stand characteristics of successful and unsuccessful Merriam's turkey nest sites in north-central Arizona, Brian F. Wakeling, Steven S. Rosenstock, and Harley G. Shaw, 43:242–248
Foresteria pubescens, 43:190
Forestiera, 38:68
acuminata, 38:166, 45:388, 45:411
angustifolia, 38:78, 43:200, 43:275–277, 45:339, 46:401
neomexicana, 42:13, 42:138, 42:472, 45:166, 45:458
pubescens, 42:444, 45:402, 45:406, 45:409
Forestieria angustifolia, 43:200
Forficula auricularia, 42:89
Fork-tailed flycatcher (*Tyrannus savana*) in Arkansas in January with comments on winter occurrence in North America, William M. Shepherd and Kimberly G. Smith, 41:194–195
Formica, 37:110, 38:292, 45:465
argentea, 44:281
gnava, 37:432
neoclara, 44:281
pallidefulva, 38:138, 44:278, 44:280–283
perpilosa, 44:281
schaufussi, 37:432
Formicarius analis, 43:231
Formicidae, 37:110, 37:171, 37:434, 38:78, 38:79, 38:164, 38:170, 38:286, 38:291, 38:388–389, 41:436, 42:151, 43:333–335, 44:379–382, 44:457–461, 45:359, 45:459, 45:465, 46:63, 46:241
Fossaria, 38:293
modicella, 43:283
obrussa, 38:295
Fossil record of *Euderma maculatum* (Chiroptera: Vespertilionidae), eastern Grand Canyon, Arizona, first, Jim I. Mead and David G. Mikesic, 46:380–383
Fouqueria
diguetti, 42:108
splendens, 39:364–370
Fouquieria
columnaris, 46:2, 46:4
diguetii, 46:245
formosa, 43:39
macdougalii, 38:193
splendens, 37:35–42, 37:115, 38:346, 40:355, 41:258, 41:315, 41:427, 42:182, 42:186, 42:224, 42:240, 45:339, 46:2, 46:4, 46:401
Fouquieriaceae, 44:508
Fowler, Norma L., see Russell, F. Leland, and —
Fox, Kevin B., and Paul R. Krausman, Fawning habitat of desert mule deer, 39:269–275
Fox, Kevin B., see Krausman, Paul R., —
Fox, Lisa M., see Krausman, Paul R., —
Fox, Lloyd B., see Gehrt, Stanley D., —
Fox, Lloyd B., see Robel, Robert J., and —

Fox, Stanley F., see McCoy, J. Kelly, —
Fox, Stanley F., Susana Perea-Fox, and Rubén Castro Franco, Development of the tail autotomy adaptation in lizards under disparate levels of predation at high and low elevations in Mexico, 39:311–322
Foxella ignota, 46:95
Fraga, Javier H., see Frey, Jennifer K., —
Fragaria, 41:96
virginiana, 43:210
Fragaria bracteata, 44:375
Fragilaria
construens, 37:150
crotonensis, 37:149, 37:150
leptostauron, 37:150
vaucheriae, 37:150, 46:203, 46:205
Fragilariaceae, 37:150
Frankenia
corymbosa, 40:397, 40:401
palmeri, 40:395, 40:400
pulverulenta, 40:397
salina, 40:399, 40:401
Frankenieteа salinae, 40:391
Frankenietum
palmeri, 40:394, 40:395, 40:402
pulverulentae, 40:395, 40:402, 40:403
Frankenio
corymbosae, 40:394, 40:395, 40:403
grandifoliae, 40:401
salinae, 40:393, 40:394, 40:403
Franzinua, 43:116
Fraxinus, 38:404, 42:127, 42:356, 44:342, 46:194
americana, 42:104, 44:427, 45:400, 45:404
berlandieriana, 44:536
pennsylvanica, 38:30, 38:34, 40:130, 40:135, 40:138, 44:428, 44:429, 44:431, 45:400–404, 45:408, 46:179
quadrangulata, 37:369, 45:390
texana, 44:33
texensis, 45:402, 45:406, 45:409
velutina, 40:407, 45:171, 45:172, 45:268, 46:195, 46:196, 46:199
Fredrickson, Leigh H., see Gammonley, James H., and —
Free-living freshwater copepods (Crustacea) of Mexico, an updated list of the, E. Suárez-Morales and J. W. Reid, 43:256–265
Freeman, Patricia W., and Hugh H. Genoways, Recent northern records of the nine-banded armadillo (Dasypodidae) in Nebraska, 43:491–495
Fregatidae, 41:355
Freiley, Kenneth J., Clonal diversity patterns in marginal populations of the geographically restricted shrub *Neviusia alabamensis* (Rosaceae), 39:34–39
French, Barbara, and Amanda Lollar, Observations on the reproductive behavior of captive *Tadarida brasiliensis mexicana* (Chiroptera: Molossidae), 43:484–490
French, Victor E., see Nelson, Allan D., —
Frequency of birth and lambing sites of a small population of mountain sheep, Richard C. Etchberger and Paul R. Krausman, 44:354–360
Freshwater molluscs of selected playa lakes of the southern High Plains of Texas, Raymond W. Neck and Harold L. Schramm, Jr., 37:205–209
Freshwater sponges (*Dosilia radiospiculata* and *Ephydatia muelleri*) in Arizona, occurrence of two species of, Patricia A. Sowka, 44:211–212
Frey, Jennifer K., and Charles T. LaRue, Notes on the distribution of the Mogollon vole (*Microtus mogollonensis*) in New Mexico and Arizona, 38:176–178
Frey, Jennifer K., and Mariel L. Campbell, Introduced populations of fox squirrel (*Sciurus niger*) in the Trans-Pecos and Llano Estacado regions of New Mexico and Texas, 42:356–358
Frey, Jennifer K., Javier H. Fraga, and Francisca C. Bermudez, A new locality of the montane vole (*Microtus montanus arizonensis*) in New Mexico, 40:421–422
Frey, Jennifer K., see Bermudez, Francisca C., —
Fries, Joe N., and Paula Power, Occurrence of an aquatic lepidopteran (*Parapoynx obscuralis*, Pyralidae) on cultured Texas wildrice (*Zizania texana*, Poaceae), 44:213–214
Fries, Joe N., see Berkhouse, Casey S., and —
Fringed myotis, *Myotis thysanodes* (Chiroptera: Vespertilionidae), in Tamaulipas, Mexico, the, Arnulfo Moreno-Valdez, 44:404–405
Fringillidae, 42:141, 42:227, 44:508
Fritzell, Erik K., see Gehrt, Stanley D., —
Frodichia, 38:234
floridana, 38:226, 45:407
Frugivory on *Bursera microphylla* (Burseraceae) by wintering gray vireos (*Vireo vicinior*, Vireonidae) in the coastal deserts of Sonora, Mexico, John M. Bates, 37:252–258
Fugate, Michael, see Belk, Denton, and —
Fuirena simplex, 44:262, 44:266, 44:268
Fulbright, Timothy E., Temperature effects on seed germination of *Cordia boissieri* A. DC. (Boraginaceae), 37:197–199
Fulica americana, 37:357, 37:358, 37:400, 38:60, 38:61, 38:63, 38:64, 41:152, 42:225
Fulmarus glacialis, 43:402, 43:403
Funaria hygrometrica, 45:229
Fundulidae, 37:140, 40:316, 44:168
Fundulus
grandis, 37:180–184, 37:262–264
notatus, 37:142, 37:143, 41:158, 41:301, 41:302, 45:277, 45:279, 45:280, 45:282, 45:285
olivaceus, 37:146, 40:310, 43:336, 43:338, 43:340
parvipinnis, 45:516, 45:520
sciadicus, 42:282
zebrinus, 37:178, 37:180–184, 38:12, 41:155–160, 41:311, 41:312, 42:112, 42:114, 42:117, 42:282, 44:288, 44:392–394, 45:274, 45:279, 45:285–287, 46:162, 46:163
Fuscatelum, 40:424
Fusco, Michael J., see Holechek, Jerry L., —
Fusconaia flava, 41:326, 41:327, 42:333, 42:334
Fuselier, Linda, and David Edds, Seasonal variation in habitat use by the Neosho madtom (Teleostei: Ictaluridae: *Noturus placidus*), 39:217–223
Fuselier, Linda, and David Edds, Seasonal variation of riffle and pool fish assemblages in a short mitigated stream reach, 41:299–306

Gaeana maculata, 39:29
Gagrellidae, 38:238
Gaillardia, 38:226
pulchella, 40:271, 44:12, 45:435, 45:441
pulchellum, 45:409
suavis, 42:183, 42:224
Galactia
canescens, 44:265–267
wrightii, 46:402
Galeodes, 43:294
arabs, 43:292
Galina-Tessaro, Patricia, see Alvarez-Cárdenas, Sergio, —
Galindo, 37:422–424
Galindo-Galindo, Cristóbal, see Ramírez-Pulido, José, —
Galindo-Leal, Carlos, Angeles Morales G., and Manuel Weber R., Distribution and abundance of Coues deer and cattle in Michilia Biosphere Reserve, Mexico, 38:127–135
Galindo-Leal, Carlos, Overestimation of deer densities in Michilia Biosphere Reserve, Durango, Mexico, 37:209–212

Galium, 44:14
aparine, 45:400
tomentosum, 43:449
virgatum, 44:11, 44:12, 45:95, 45:102, 45:103
Gallagher, James F., see Ruthven, Donald C., III, —
Gallina, Sonia, and Exequiel Ezcurra, Deer densities in La Michilía: a reply to Galindo, 37:422–424
Gallinago gallinago, 37:397, 42:225
Gallium, 38:291
Galphimia angustifolia, 42:444
Gambelia
silus, 39:91
wislizenii, 43:443, 43:445
Gambusia, 37:337–339, 42:276
affinis, 37:16, 37:17, 37:20, 37:21, 37:142, 37:157–165, 37:178, 37:180–184, 37:261–265, 38:12, 38:370–373, 39:227, 39:233, 39:302, 40:319, 41:75, 41:301, 41:302, 41:304, 41:312, 42:268, 42:270–272, 42:275, 42:283, 42:285, 43:119, 43:340, 44:160, 44:218, 44:220, 44:288, 45:279, 45:280, 45:285, 45:521–522, 46:314, 46:316
amistadensis, 40:318
episcopi, 41:67–68
georgei, 40:318
holbrooki, 38:370, 45:262, 45:522
nobilis, 46:148
senilis, 37:262–264
speciosa, 46:217, 46:218
yucatana, 44:168, 44:170
Gammaridae, 41:62, 41:63
Gammarus
lacustris, 44:18, 44:20, 44:205, 44:206, 44:209
pulex, 44:208
Gammonley, James H., and Leigh H. Fredrickson, Breeding duck populations and productivity on montane wetlands in Arizona, 43:219–227
Gannon, Michael R., and Michael R. Willig, Bat reproduction in the Luquillo Experimental Forest of Puerto Rico, 37:414–419
Gannon, Michael R., see Willig, Michael R., —
Gannon, William L., Syntopy between two species of long-eared bats (*Myotis evotis* and *Myotis auriculus*), 43:394–396
Ganz, Lisa, see Terranella, Anthony C., —
Gar ichthyootoxin: its effect on natural predators and the toxin's evolutionary function, Kenneth G. Ostrand, Monte L. Thies, Darrell D. Hall, and Mark Carpenter, 41:375–377
Garcelon, David K., Gary W. Roemer, R. Brand Philips, and Timothy J. Coonan, Food provisioning by island foxes, *Urocyon littoralis*, to conspecifics caught in traps, 44:83–86
Garcia Aldrete, Alfonzo Neri, New psocids (Insecta: Psocoptera) from Socorro Island, Revillagigedo Archipelago, Mexico, 39:83–88
García de León, Francisco J., Leonardo Gonzáles-García, José M. Herrera-Castillo, Kirk O. Winemiller, and Alfonso Banda-Valdés, Ecology of the alligator gar, *Atractosteus spatula*, in the Vicente Guerrero Reservoir, Tamaulipas, México, 46:151–157
Garcia P., Luis, see Alcaraz, Guillermina, —
García-Moya, Edmundo, see Martínez-Delgado, Ezequiel, —
Garcia-Prieto, Luis, see Espinosa-Huerta, Elsa, —
García-Salas, Juan A., Armando J. Contreras-Balderas, and José I. González-Rojas, Birds of a creosotebush community in the Cuatrocienegas Basin, Coahuila, Mexico, 40:355–359
Garcia-Salas, Juan A., see Contreras-Balderas, Armando J., —
Gardena elkinsi, 45:463
Garmanella pulchra, 44:168
Garrett, Gary P., Robert J. Edwards, and Andrew H. Price, Distribution and status of the Devils River minnow, *Dionda diaboli*, 37:259–267
Garrija wrightii, 41:229
Garrison, Tom E., see Best, Troy L., —
Garrulus glandarius, 43:174
Garrya
ovata, 43:39
wrightii, 46:195
Gass, Leila, and Paul W. Barnes, Microclimate and understory structure of live oak (*Quercus fusiformis*) clusters in central Texas, USA, 43:183–194
Gasterosteidae, 42:283, 42:286, 42:287
Gasterosteus aculeatus, 38:220, 38:221
Gastrocopta
ashmuni, 42:471–473, 42:476
cristata, 42:472, 42:474
pellucida, 38:294, 38:295, 42:471–474, 42:476
pilsbryana, 42:471, 42:472–475
procera, 42:472–474
Gastrointestinal helminths of eastern woodrat populations in central Oklahoma, Jon C. Boren, Robert L. Lochmiller, James F. Boggs, and David M. Leslie, Jr., 38:146–149
Gastrophryne
olivacea, 43:8
usta, 41:329, 41:330
Gastropoda, 43:283–286, 45:450–455
Gastrotaenia cygni, 39:205
Gaud, William S., see Allred, Sylvester, and —
Gaud, William S., see Allred, W. Sylvester, and —
Gavia immer, 39:394–395
Gay, Samantha W., and Troy L. Best, Geographic variation in sexual dimorphism of the puma (*Puma concolor*) in North and South America, 40:148–159
Gazella thomsoni, 38:67
Geber, Monica A., see Adolph, Stephen C., and —
Geffen, Eli, see Maldonado, Jesús E., —
Gehrt, Stanley D., Daniel E. Clark, and Erik K. Fritzell, Population dynamics and ecology of Virginia opossums in southern Texas, 42:170–176
Gehrt, Stanley D., Lloyd B. Fox, and Dwight L. Spencer, Locations of raccoons during flooding in eastern Kansas, 38:404–406
Gekkonidae, 43:9
Gelastocoridae, 44:25
Gelastocoris, 44:25
Gelechiidae, 42:155
Geluso, Keith, Distribution of the spotted bat (*Euderma maculatum*) in Nevada, including notes on reproduction, 45:347–352
Genealogy of a hybrid *Cnemidophorus* (Sauria: Teiidae) from the valley of the Rio Conchos, Chihuahua, Mexico, James M. Walker, James E. Cordes, Harry L. Taylor, and Fernando Mendoza Quijano, 45:527–533
Genetic attributes of a declining population of reintroduced eastern wild turkeys (*Meleagris gallopavo silvestris*), Stephanie A. Harmon and Ronald A. Van Den Bussche, 45:258–266
Genetic differentiation between populations of Hutton's vireo (Aves: Vireonidae) in disjunct allopatry, Carla Cicero and Ned K. Johnson, 37:344–348
Genetic diversity among four amblemini species (Bivalvia: Unionidae) in the Cache and White rivers, Arkansas, Ronald L. Johnson, Fang Qing Liang, and Jerry L. Farris, 43:321–332
Genetic diversity, gene flow, and relictualism in *Claytonia lanceolata* var. *peirsonii*, a rare montane perennial from southern California, Orlando Mistretta and Aaron Liston, 37:223–230
Genetic diversity in two rare milkweeds

from the southwestern United States, James P. Therrien, 44:247–255
Genetic polymorphism in two species of whistling-ducks from Texas, Amanda S. Beheler, Rod N. Williams, Olin E. Rhodes, Jr., Erin P. Reat, Alan M. Fedynich, Danny B. Pence, and James F. Bergan, 45: 234–238
Genetic structure among populations of *Rana pipiens* in Arizona and Utah, re-analysis of, Mark P. Miller, Diana N. Kimberling, and Paul Keim, 44:527–530
Genetic structure of a founding white crappie population (Teleostei: *Pomoxis annularis*) in an Oklahoma reservoir, David D. Oakey, Larry G. Talent, and O. Eugene Maughan, 38:246–251
Genetic variability in pre- and post-bottleneck segments of the cui-ui (Osteichthys: *Chasmistes cujus*) population of Pyramid Lake, Nevada, Hugh B. Britten and Peter F. Brussard, 41:43–47
Genetic variation in a recently isolated population of mule deer (*Odocoileus hemionus*), John D. Peles, Floyd W. Weathersbee, Jr., Paul E. Johns, Jane Griess, Dan L. Baker, and Michael H. Smith, 44:236–240
Genetic variation in the endangered fish fauna (Atheriniformes: Cyprinodontidae) associated with Pluvial Lake Sandia, Nuevo Leon, Mexico, Anthony A. Echelle, Alice F. Echelle, Salvador Contreras-Balderas, and Lourdes Lozano-Vilano, 40:11–17
Genetically introgressed pupfish (Cyprinodontidae: *Cyprinodon pecosensis* × *variegatus*) in New Mexico, expanded occurrence of, Anthony A. Echelle, Christopher W. Hoagstrom, Alice F. Echelle, and James E. Brooks, 42:336–339
Genetics of a founder event, the, Thomas E. Lee, Jr. and W. Sue Fairbanks, 43:415–418
Genoways, Hugh H., see Freeman, Patricia W., and —
Gentianaceae, 45:441
Genyonemus lineatus, 38:220
Geochelone elephantopus, 42:38
Geococcyx californianus, 37:398, 38:46, 39:92, 40:357, 42:35, 42:226, 45: 74–76, 46:384
Geographic variation in morphology of spikedace, *Meda fulgida*, in Arizona and New Mexico, Allison A. Anderson and Dean A. Hendrickson, 39:148–155
Geographic variation in nuptial colors of red shiner (*Cyprinella lutrensis*; Cyprinidae) within the United States, William J. Matthews, 40:5–10
Geographic variation in seed mass in the chaparral shrub Heteromeles arbutifolia (Rosaceae), Nora E. Martijena and Stephen H. Bullock, 42:119–121
Geographic variation in sexual dimorphism in the collared lizard, *Crotaphytus collaris* (Sauria: Crotaphytidae), J. Kelly McCoy, Stanley F. Fox, and Troy A. Baird, 39:328–335
Geographic variation in sexual dimorphism of the bobcat (*Felis rufus*) in the eastern United States, Robert S. Sikes and Michael L. Kennedy, 38:336–344
Geographic variation in sexual dimorphism of the puma (*Puma concolor*) in North and South America, Samantha W. Gay and Troy L. Best, 40:148–159
Geometridae, 38:3, 42:130
Geomydoecus, 41:395
ewingi, 39:276, 41:396
spickai, 41:396
Geomyidae, 39:156–159, 39:276, 41: 395, 42:323–327, 44:73–82, 44: 173–183, 46:209, 46:212
Geomys, 37:232, 42:323, 43:54
attwateri, 44:77, 44:177–181
breviceps, 39:276–280, 40:410, 41:395–397, 42:326, 44:77, 44:175, 44:177, 44:178, 44:180, 44:181
bursarius, 37:57, 37:61–63, 37:113, 38: 285, 39:158, 39:277, 39:278, 40: 162, 40:410, 41:190, 41:395–397, 42:238–240, 44:77, 44:175, 44:177–181
floridanus, 40:410
lutescens, 41:397
personatus, 42:239
pinetis, 39:279, 42:326
pinetus, 39:158
texensis, 42:326
Geophis rhodogaster, 40:123–124
Geophis rhodogaster (Colubridae), an addition to the snake fauna of Mexico, Eric N. Smith, 40:123–124
Geopinus incrassatus, 46:209
Geothlypis trichas, 38:60, 38:63, 38:64, 42: 224, 42:227, 45:163
Geothypis trichas, 45:164
Geranium, 39:166
richardsonii, 43:212
Gergus, Erik W. A., see Goldberg, Stephen R., —
Gerhardt, Dawn McAnnis, see Gerhardt, Richard P., and —
Gerhardt, Richard P., and Dawn McAnnis Gerhardt, Two gray fox litters share den, 40:419
Germaine, Stephen S., Kirby D. Bristow, and Lisa A. Haynes, Distribution and population status of mountain lions in southwestern Arizona, 45:333–338
Germinacion de *Salicornia bigelovii* Torr. (Chenopodiaceae) bajo diferentes concentraciones de Agua Marina, Enrique Troyo-Diéguez and Aurora M. Breceda Solis-Cámara, 37:22–27
Germination and early growth traits of 14 plant species native to northern Mexico, Joel Flores and Enrique Jurado, 43:40–46
Germination, light requirements, and competitive interactions of *Stipa leucotricha* (Gramineae), James J. White and O. W. Van Auken, 41: 27–34
Germination requirements of aerial chasmogamous florets and seeds of *Nassella leucotricha* (Poaceae), O. W. Van Auken, 42:194–200
Gerreidae, 44:168
Gerres cinereus, 44:168
Gerrhonotus liocephalis, 37:426, 39:172, 40:122, 41:363
Gerridae, 40:60, 42:151
Gerris, 42:261
Gestation periods and birth weights of desert bighorn sheep in relation to other Caprinae, Christine C. Hass, 40:139–147
Giant anteater (*Myrmecophaga tridactyla*) in Honduras, first evidence of the, Christy M. McCain, 46:252–254
Gido, Keith B., Feeding ecology of three omnivorous fishes in Lake Texoma (Oklahoma-Texas), 46: 23–33
Gido, Keith B., Jacob F. Schaefer, Kirsten Work, Philip W. Lienesch, Edie Marsh-Matthews, and William J. Matthews, Effects of red shiner (*Cyprinella lutrensis*) on Red River pupfish (*Cyprinodon rubrofluviatilis*), 44:287–295
Gido, Keith B., see Brandenburg, W. Howard, and —
Giesen, Kenneth M., Movements and nesting habitat of lesser prairie-chicken hens in Colorado, 39:96–98
Gila, 37:12, 41:447, 41:449
bicolor, 45:516, 45:520
crassicauda, 38:218, 38:221
cypha, 41:378, 41:379, 44:384–388, 44:391, 45:516, 45:520
ditaenia, 40:109

elegans, 41:378, 44:384, 44:388, 45:514, 45:516, 45:520, 46:160
intermedia, 40:110, 44:218, 44:220, 45:24–29
nigrescens, 39:224–234, 41:446
pandora, 39:225, 40:107–110, 40:240, 44:46, 44:152
pulchella, 39:225
pulchra, 41:448
purpurea, 40:109, 40:110
robusta, 38:364, 38:397, 40:109, 40:301–307, 41:378, 43:115, 44:384, 44:388, 45:28, 45:516, 45:520, 46:160, 46:162, 46:302–310
seminuda, 43:115–122
Gilia incisa, 45:103
Gipson, Philip S., and Jan F. Kamler, Survival and home ranges of opossums in northeastern Kansas, 46:178–182
Gipson, Philip S., see Kamler, Jan F., —
Gipson, Philip S., see Matlack, Raymond S., —
Girardiella, 37:328–330
Glass, Jason W., Alan M. Fedynich, Michael F. Small, and Steve J. Benn, *Trichomonas gallinae* in an expanding population of white-winged doves from Texas, 46:234–237
Glaucidium
brasilianum, 43:235, 44:312
gnoma, 45:155
passerinum, 38:30
Glaucomys, 39:382
volans, 39:380, 44:408
Glaucopsyche lygdamus, 44:375
Glaux maritima, 40:389
Gleditsia triacanthos, 37:114, 45:403–405, 46:179
Glendinning, John I., Range extension for the diminutive woodrat, *Neotoma neotomodon*, in the Mexican transvolcanic range, 37:92–93
Glenn, Edward, David Moore, Stewart Sanderson, J. Jed Brown, Don Lash, Mansel Nelson, and Jody Waugh, Comparison of growth and morphology of *Atriplex canescens* varieties *occidentalis* and *angustifolia*, 43:176–182
Glenn, Edward P., see Zengel, Scott A., and —
Glinski, Richard L., see Brown, Bryan T., —
Globicephala macrorhynchus, 41:283
Globipes, 38:236–238
Glossophaga, 44:233
commisarisi, 38:25
commissarisi, 39:281, 44:232, 44:234
leachii, 39:281, 44:232, 44:234
longirostris, 41:267
morenoi, 37:441
soricina, 37:415, 37:420, 38:24–29, 38:81, 40:33–35, 40:37, 45:344
Glossosoma verdona, 39:252
Glossosomatidae, 38:20, 38:22, 39:252
Glyceria, 43:215
elata, 43:205
striata, 43:205
Glycyrrhiza lepidota, 40:137, 44:434
Glyphorhynchus spirurus, 43:230–232
Glyphyalinia indentata, 38:295, 42:471–473
Glyptasida sordida, 42:353, 46:209
Glyptheltmins, 46:223–225, 46:229
californiensis, 46:228
hylorea, 46:228
quieta, 40:111, 40:112, 40:114, 45:362–365
Glyptotherium arizonae, 41:207
Gnaphosa, 45:462
clara, 46:209
sericata, 46:209
Gnaphosidae, 45:462, 45:467, 46:209
Gnathamitermes tubiformans, 39:80
Gobalet, Kenneth W., Additional archaeological evidence for endemic fishes of California's Central Valley in the coastal Pajaro-Salinas Basin, 38:218–223
Gobalet, Kenneth W., and Thomas A. Wake, Archaeological and paleontological fish remains from the Salton Basin, southern California, 45:514–520
Gobiesocidae, 46:96–98
Gobiesociformes, 46:96–98
Gobiesox
adustus, 46:96
fluviatilis, 46:96–98
juniperoserrae, 46:96
mexicanus, 46:96
Gobiidae, 38:220, 38:221, 44:169
Gobiomorus dormitor, 44:169
Gochnathia hypoleucha, 43:42
Goetze, Jim R., see Nelson, Allan D., —
Gold, John R., see Richardson, Linda R., and —
Gold, John R., see Schmidt, Timothy R., —
Gold, John R., Yucheng Li, Matt C. Birkner, and John D. Jenkin, Chromosomal NOR karyotypes and genome sizes in *Dionda* (Osteichthyes: Cyprinidae) from Texas and New Mexico, 37:217–222
Goldberg, Stephen R., and Andrew T. Holycross, Reproduction in the desert massasauga, *Sistrurus catenatus edwardsii*, in Arizona and Colorado, 44:531–535
Goldberg, Stephen R., Charles R. Bursey, and Erik W. A. Gergus, Helminth communities of subpopulations of the Pacific treefrog, *Hyla regilla* (Hylidae), from Baja California, México, 46:223–230
Goldberg, Stephen R., Charles R. Bursey, and James E. Platz, Helminths of the plains leopard frog, *Rana blairi* (Ranidae), 45:362–366
Goldberg, Stephen R., Charles R. Bursey, and Robert L. Bezy, Helminths of isolated montane populations of Yarrow's spiny lizard, *Sceloporus jarrovii* (Phrynosomatidae), 40:330–333
Goldberg, Stephen R., H. J. Holshuh, George A. Middendorf, III, and Naida Zucker, Natural cactus spine injury in the tree lizard, *Urosaurus ornatus* (Phrynosomatidae), 39:303–305
Goldberg, Stephen R., Reproduction in the ground snake, *Sonora semiannulata* (Serpentes: Colubridae), from Arizona, 46:387–391
Goldberg, Stephen R., Reproduction in the lyre snake, *Trimorphodon biscutatus* (Colubridae), from Arizona, 40:334–335
Goldberg, Stephen R., Reproduction in the Sonoran whipsnake, *Masticophis bilineatus* (Serpentes: Colubridae), 43:412–415
Goldberg, Stephen R., Reproduction in the western patchnose snake, *Salvadora hexalepis*, and the mountain patchnose snake, *Salvadora grahamiae* (Colubridae), from Arizona, 40:119–120
Goldberg, Stephen R., see Bursey, Charles R., and —
Goldsmith, Steven, Howard McCarley 1926–1999, 44:545–546
Gomphidae, 37:169, 37:170, 41:71, 41:72, 44:25
Gomphonema
affine, 37:150, 37:152, 46:203
angustatum, 46:203
olivaceum, 37:149, 37:150, 37:152, 37:153, 46:202, 46:203
parvulum, 37:150, 46:203
subclavatum, 37:150
Gomphonemaceae, 37:150
Gonasida elata, 42:353, 44:379, 44:380
Gonolobus, 43:42–44
Gonzáles, Francisco X., and Fernando A. Cervantes, Karyotype of the white-sided jackrabbit (*Lepus callotis*), 41:93–95
Gonzáles-García, Leonardo, see García de León, Francisco J., —
Gonzalez, Victor, see Eitniear, Jack C., —
Gonzalez-Aquilar, Jose A., see Rodriguez-Almaraz, Gabino A., —
Gonzalez-Espinosa, M., see Vargas-Mendoza, M. C., and —
Gonzalez-Rojas, Jose I., see Contreras-Balderas, Armando J., —

González-Rojas, José I., see García-Salas, Juan A., —
González-Romero, Alberto, see López-González, Carlos A., —
Goodwin, H. Thomas, Subgeneric identification and biostratigraphic utility of late Pleistocene prairie dogs (*Cynomys*, Sciuridae) from the Great Plains, 38:105–110
Gopher snake attraction to birds' nests, Michael W. Eichholz and Walter D. Koenig, 37:293–298
Gopherus
agassizi, 38:163, 38:164
agassizii, 43:391, 43:407–411, 46:51
berlandieri, 42:38
polyphemus, 39:356
Gorchov, David L., see Jones, F. Andrew, and —
Gore, Jeffery A., see Navo, Kirk W., and —
Gorenzel, W. Paul, Sonke A. Mastrup, and E. Lee Fitzhugh, Characteristics of brushpiles used by birds in northern California, 40:86–93
Gorgodera, 46:228
amplicava, 40:114
Gorgoderina, 46:223–225, 46:227–229
attenuata, 40:114, 45:363
simplex, 45:362–365
Gorin, Jessica B., see Agrawal, Anurag A. —
Gorytes
deceptor, 43:252
dorothyae, 43:252
Gossypium
harknessii, 37:283
harknessii, 37:282
thurberi, 46:195
Gottfried, Gerald J., see Borelli, Simone, —
Gouania lupuloides, 43:276
Gould, Georgianna G., and Merrill H. Sweet, II, The host range and oviposition behavior of *Ochrimnus mimulus* (Hemiptera: Lygaeidae) in central Texas, 45:15–23
Graber, David M., see Bradford, David F., —
Gracillariidae, 38:3
Graham, Tim B., Predation by dipteran larvae on fairy shrimp (Crustacea: Anostraca) in Utah rock-pools, 39:206–207
Gramineae, 38:226, 41:27–34, 41:207, 41:215, 42:490, 46:240
Grampus griseus, 41:283
Grant, Gerold C., and Paul E. Maslin, Movements and reproduction of hardhead and Sacramento squawfish in a small California stream, 44:296–310
Grant, W. E., see Ferris, David K., —
Grant, William E., see Killion, Michael J., and —
Grant, William E., see Treviño-Villarreal, Julián, —
Graomys
domorum, 44:331
griseoflavus, 42:491
Graptemys, 46:233
geographica, 37:317–318
kohnii, 43:6
pseudogeographica, 43:6, 43:9
Graptocorixa serrulata, 43:80–86
Graves, Kerry G., see Simon, Thomas P., —
Gray fox litters share den, two, Richard P. Gerhardt and Dawn McAnnis Gerhardt, 40:419
Grayia spinosa, 39:186, 43:408
Grazing effects on reproductive characteristics of common curlymesquite (*Hilaria belangeri*), Elizabeth L. Scholl, and Robert J. Kinucan, 41:251–256
Great horned owl food habits at Mono Lake, California, Paul A. Aigner, Michael L. Morrison, Linnea S. Hall, and William M. Block, 39:286–288
Green, Heather, see Morrell, Thomas E., —
Green, M. Clay, Louis A. Harveson, and Lynn E. Loomis, Habitat selection by collared peccaries in Trans-Pecos Texas, 46:246–251
Green sunfish (*Lepomis cyanellus*) predation on survival and habitat use of plains killifish (*Fundulus zebrinus*), effects of, Samuel C. Lohr and Kurt D. Fausch, 41:155–160
Greenbaum, Ira F., see McClure, Matthew R., and —
Greenbaum, Ira F., see Smith, Steven A., —
Greene, Erick, see Siemens, David H., and —
Greer, Lee F., *Thelesperma curvicarpum* (Asteraceae), an achene form in populations of *T. simplicifolium* var. *simplicifolium* and *T. filifolium* var. *filifolium*, 42:242–244
Gregory, Mark S., see Wethington, Traci A., —
Griess, Jane, see Peles, John D., —
Grimes, John V., see Dalquest, Walter W., —
Grimmia
affinis, 45:229
alpestris, 45:229
anodon, 45:229
apocarpa, 45:230
atricha, 45:230
calyptrata, 45:228
decipiens, 45:229
laevigata, 45:229
orbicularis, 45:229
ovalis, 45:229
pulvinata, 45:229
stricta, 45:230
trichophylla, 45:229
wrightii, 45:230
Grimmiaceae, 45:228
Group stability, activity budgets, and movements of pronghorn females, Christine R. Maher, 42:25–32
Growth and morphology of *Atriplex canescens* varieties *occidentalis* and *angustifolia*, comparison of, Edward Glenn, David Moore, Stewart Sanderson, J. Jed Brown, Don Lash, Mansel Nelson, and Jody Waugh, 43:176–182
Growth and survivorship of Moapa dace (Osteichthyes: Cyprinidae: *Moapa coriacea*) in an isolated stream reach on Moapa National Wildlife Refuge, G. Gary Scoppettone and Howard L. Burge, 39:192–195
Growth patterns and morphological features of juvenile *Helix aspersa* from West Texas, Mary Roberson and Daryl L. Moorhead, 44:93–96
Growth rate and life span of a prickly pear cactus, *Opuntia engelmannii*, in the northern Sonoran Desert, Janice E. Bowers, 41:315–318
Growth rate, timing of reproduction, and size dimorphism in the southwestern earless lizard (*Cophosaurus texanus scitulus*), Derrick W. Sugg, Lee A. Fitzgerald, and Howard L. Snell, 40:193–202
Growth rates of juvenile nine-banded armadillos, Colleen M. McDonough, Suzanne A. McPhee, and W. J. Loughry, 43:462–468
Grus
americana, 42:279
canadensis, 37:400, 42:318, 45:76–79
leucogeranus, 45:261
Gryllacrididae, 38:164, 39:92, 40:344
Gryllidae, 38:164, 45:359, 45:463
Gryllus, 43:292
alogus, 45:463, 45:465
Guaiacum angustifolium, 41:184, 43:276, 43:277, 46:401
Guarea guidonia, 43:74
Guazuma ulmifolia, 38:81, 43:276
Guerrero V., Ramón O., see Medellín, Rodrigo A., —
Guertin, D. Phillip, see Danzer, Steven J., —
Guillette, Louis J., Jr., see Ramirez-Bautista, Aurelio, —
Guiraca caerulea, 37:389, 40:357, 42:140, 42:227, 43:457
Gutermuth, F. Brandt, Leo D. Lentsch, and Kevin R. Bestgen, Collection

of age-0 razorback suckers (*Xyrauchen texanus*) in the lower Green River, Utah, 39:389–391
Gurrola-Hidalgo, Marco A., Ash-throated flycatcher eats a *Cnemidophorus* lizard, 38:179
Gutberlet, Ronald L., Jr., A new locality for Rowley's palm pitviper, *Bothriechis rowleyi* (Serpentes: Viperidae), a Mexican relict, 40:124–125
Gutberlet, Ronald L., Jr., Carol L. Stewart, and Michael B. Keck, New distributional records for Texas reptiles and amphibians, 43:6–12
Guthery, Fred S., see Taylor, J. Scott, and —
Gutierrez, José Maria, see Solorzano, Alejandro, —
Gutierrez-Mayen, Guadalupe, see Ramirez-Bautista, Aurelio, —
Gutierrez-Ramos, Anahid, see Alvarez-Castañeda, Sergio Ticul, —
Gutierrezia, 46:241
californica, 44:368, 46:67
microcephala, 38:212–216
sarothrae, 38:225, 38:226, 38:232, 39:54, 39:96, 39:342, 39:345–347, 40:281, 40:283–285, 41:216, 41:240, 43:54, 43:442, 43:450, 43:470, 44:101, 44:436, 44:437, 45:388, 46:210–211, 46:333
Guttman, Sheldon I., see Karlin, Alvan A., —
Guzmán, Ana Fabiola, see Polaco, Oscar J., and —
Guzman, J., see Olvera, O., —
Guzman, Judith, Olga Olvera, Ma. Esther de la Rosa, and Victor M. Salceda, Population genetics of Mexican *Drosophila*. IX. East-west distribution of inversion polymorphism in *Drosophila pseudoobscura*, 38:52–55
Gyalopion canum, 43:443, 43:445
Gymnocichla nudiceps, 43:231
Gymnocladus dioica, 44:427
Gymnodidium brevis, 37:178
Gymnopogon ambiguus, 45:407, 45:419
Gymnorhinus cyanocephalus, 40:97, 40:180–184, 40:233, 41:270
Gymnostomum, 42:163, 42:165
Gymnura marmorata, 43:502
Gypsophilous, 42:224
Gyraulus, 42:261
parvus, 37:206–208
Gyrinidae, 38:170, 44:24
Gyrinus, 44:24
Gyrosigma acuminatum, 46:203

Haase, Ben, see Harrington, Brian A., and —
Habia
fuscicauda, 45:80
rubica, 43:232, 45:80
Habitat and landscape characteristics on avian breeding distributions in Colorado foothills shrub, effects of, Mark E. Berry and Carl E. Bock, 43:453–461
Habitat boundary on small mammals associated with the White Sands dune complex, effects of a, J. Jeffrey Root, Eric E. Jorgensen, and Stephen Demarais, 44:193–198
Habitat characteristics and monitoring of amphibians and reptiles in the Huachuca Mountains, Arizona, Michael L. Morrison, William M. Block, Linnea S. Hall, and H. Sheridan Stone, 40:185–192
Habitat heterogeneity and seed dispersal of *Opuntia streptacantha* (Cactaceae) in nopaleras of central Mexico, M. C. Vargas-Mendoza and M. Gonzalez-Espinosa, 37:379–385
Habitat of *Ancistrocactus tobuschii* (Tobusch fishhook cactus, Cactaceae) on the Edwards Plateau of central Texas, Kari Sutton, John T. Baccus, and Max S. Traweek, Jr., 42:441–445
Habitat preference of the endangered American burying beetle (*Nicrophorus americanus*) in Oklahoma, J. Curtis Creighton, Caryn C. Vaughn, and Brian R. Chapman, 38:275–277
Habitat preferences of a disjunct population of parthenogenetic *Cnemidophorus neomexicanus* (Sauria: Teiidae) in San Miguel Co., New Mexico, James M. Walker, Sr., James E. Cordes, and James M. Walker, Jr., 37:82–86
Habitat relationships of the Coachella Valley fringe-toed lizard (*Uma inornata*), Cameron W. Barrows, 42:218–223
Habitat selection by collared peccaries in Trans-Pecos Texas, M. Clay Green, Louis A. Harveson, and Lynn E. Loomis, 46:246–251
Habitat use by collared peccaries in an urban environment, Elizabeth S. Bellantoni, and Paul R. Krausman, 38:345–351
Habitat use by geese wintering in southern Texas, Bart M. Ballard and Thomas C. Tacha, 40:68–75
Habitat use by semi-aquatic snakes at ponds on a reclaimed strip mine, Michael B. Keck, 43:13–19
Habitat use by small vertebrates at two water developments in southwestern Arizona, Tricia L. Cutler and Michael L. Morrison, 43:155–162
Habitat vegetative condition on trap response of rodents associated with burrow mounds of *Dipodomys spectabilis* in a desert grassland, influence of, Fenton R. Kay, 43:269–273
Habrocestum, 45:462
Habronattus, 45:462
Hackett, Shannon J., see Burns, Kevin J., and —
Hacklelia virginiana, 46:116
Hadropterus
macrocephalus, 39:11
maculatus, 39:11
pantherinus, 39:11
Hadrotettix trifasciatus, 37:364
Haematoloechus
complexus, 45:362–365
longiplexus, 45:363
medioplexus, 40:114, 45:363
Haematoxylon
brasiletto, 38:193–194
campechianum, 45:340
Haemulidae, 44:168
Haemulon flavolineatum, 44:168
Hafner, David J., see Hoyt, Reginald A., —
Hafner, Mark S., see Monterrubio, Tiberio, —
Hager, Stephen B., and Angela D. Stafford, Dynamics of species richness and abundance in a montane community of butterflies in southern New Mexico, 44:375–378
Hager, Stephen B., and Bayard H. Brattstrom, Surface activity of the San Diego horned lizard, *Phrynosoma coronatum blainvillii*, 42:339–344
Haggerty, Thomas M., Nest-site selection, nest design and nest-entrance orientation in Bachman's sparrow, 40:62–67
Haigh, Sandra L., Stem diameter-age relationships of *Tamarix ramosissima* on lake shore and stream sites in southern Nevada, 43:425–429
Halffter, Gonzalo, see Ortega-Rubio, Alfredo, —
Halfpenny, James, and Michael Heffernan, Nutrient input to an alpine tundra: an aeolian insect component, 37:247–251
Haliaeetus leucocephalus, 37:356–361, 37:404–408, 41:149–154, 41:332, 43:345
Halictidae, 42:89
Halictus, 42:89
Halicyclops, 43:261
magniceps, 43:257
Halicylops
caneki, 43:259
cenoticola, 43:259
magniceps, 43:259
Halimeda

discoidea, 41:421
gracilis, 41:421
incrassata, 41:419–423
opuntia, 41:421
tuna, 41:421
Halimeda incrassata (Chlorophyta, Bryopsidales): occurrence in the lower Laguna Madre of Texas, range extension of, James E. Kalb, 41:419–423
Halimione portulacoides, 40:396, 40:401
Halipegus, 40:114
Hall, Darrell D., see Ostrand, Kenneth G., —
Hall, Dianne L., and Michael R. Willig, Mammalian species composition, diversity, and succession in Conservation Reserve Program grasslands, 39:1–10
Hall, Linnea S., and Michael L. Morrison, Responses of mice to fluctuating habitat quality II. A supplementation experiment, 43:137–146
Hall, Linnea S., Michael L. Morrison, and William M. Block, Current status of terrestrial birds on the islands of Mono Lake, California, 39:183–187
Hall, Linnea S., see Aigner, Paul A., —
Hall, Linnea S., see Morrison, Michael L., —
Hall, Linnea S., see Morton, Martin L., —
Halloran, Margaret E., and Marc Bekoff, Home range use by Abert squirrels: a comparative analysis, 45:253–257
Halocnemum strobilaceum, 40:397
Halodule wrightii, 37:65, 41:419, 42:40
Halophila, 42:46
englemannii, 42:45
Hamamelis
vernalis, 45:410
virginicus, 45:402
Hamelia patens, 43:276
Haner, Thomas W., Michael P. Moulton, Jerry R. Choate, and Todd R. Redfearn, Species composition of small mammals at an interstate highway interchange, 41:192–194
Haner, Thomas W., Ronald W. Farrar, and Gary D. Schnell, Range extensions of the woodland vole (*Microtus pinetorum*) and two other species in northwestern Oklahoma, 44:407–409
Hanna, Jonathan D., see McKinney, Ted, —
Hannemania, 40:111, 40:112
dunni, 40:113
Hanson, Michael T., see White, P. J., —
Hantzschia amphioxys, 46:203
Hapalopus
aldanus, 45:299–302
formosus, 45:302
Haplodrassus, 45:462
Haploesthes, 42:224
Haplometrana intestinalis, 40:114
Haplopappus
ciliata, 45:419
gracilis, 43:450, 43:451
tenuisectus, 37:73, 42:188–193
venetus, 43:431, 43:434
Haplopapus laricifolius, 37:376
Haplophallus, 39:83
jarevianus, 39:84, 39:85
leopardina, 39:84
Haplotaxidae, 44:515, 44:516
Haplotaxis gordioides, 44:515, 44:516
Happlopappus tenuisectus, 39:22
Hardwick, G. G., D. W. Blinn, and H. D. Usher, Epiphytic diatoms on *Cladophora glomerata* in the Colorado River, Arizona: longitudinal and vertical distribution in a regulated river, 37:148–156
Hardy, Paul C., Michael L. Morrison, and Robert X. Barry, Abundance and habitat associations of elf owls and western screech-owls in the Sonoran Desert, 44:311–323
Hardy, Paul C., see Abeloe, Tiffany N., and —
Hardy, Paul C., Tiffany N. Abeloe, Robert X. Barry, and Michael L. Morrison, Abundance and habitat associations of common poorwills in the Sonoran Desert, 43:234–241
Harkenclenus titus, 44:375
Harmon, Stephanie A., and Ronald A. Van Den Bussche, Genetic attributes of a declining population of reintroduced eastern wild turkeys (*Meleagris gallopavo silvestris*), 45:258–266
Harp, George L., Gene Leeds, and Henry W. Robison, First report on the fairy shrimps (Branchiopoda: Anostraca) of Arkansas, 42:259–264
Harpalus
fulgens, 37:106
herbivagus, 37:105, 37:106
pennsylvanicus, 45:463, 46:209
Harpalyce arborescens, 45:421, 45:424, 45:425, 45:427
Harpia harpyja, 44:411, 46:252
Harrington, Brian A., and Ben Haase, Latitudinal differences in sex ratios among nonbreeding western sandpipers in Puerto Rico and Ecuador, 39:188–189
Harris, Arthur H., A late-Pleistocene occurrence of ermine (*Mustela erminea*) in southeastern New Mexico, 38:279–280
Harris, Arthur H., and Leslie N. Carraway, *Sorex preblei* from the Late Pleistocene of New Mexico, 38:56–58
Harris, Marsha R., and Mark E. Eberle, Diatoms (Bacillariophyta) from saline waters within Quivira National Wildlife Refuge, Stafford County, Kansas, 46:200–207
Harrison, Robert L., A survey of anthropogenic ecological factors potentially affecting gray foxes (*Urocyon cinereoargenteus*) in a rural residential area, 38:352–356
Harrison, Robert L., Bobcats in residential areas: distribution and homeowner attitudes, 43:469–475
Harrison, T. P., see Zanowiak, D. J., —
Harveson, Louis A., Bill Route, Fred Armstrong, Nova J. Silvy, and Michael E. Tewes, Trends in populations of mountain lion in Carlsbad Caverns and Guadalupe Mountains national parks, 44:490–494
Harveson, Louis A., Michael E. Tewes, Nova J. Silvy, and Jimmy Rutledge, Prey use by mountain lions in southern Texas, 45:472–476
Harveson, Louis A., see Green, M. Clay, —
Harveson, Louis A., see Walker, Christopher W., —
Harvest and food habits of waterfowl wintering in Sinaloa, Mexico, Rodrigo Migoya and Guy A. Baldassarre, 38:168–171
Harvester ants (*Pogonomyrmex occidentalis*) and pocket gopher (*Thomomys talpoides*) mounds on a short-grass steppe in Colorado, Matthew E. Hopton, 46:209–213
Harvey, James E., see Scoppettone, G. Gary, —
Hass, Christine C., and Jason F. Roback, Copulatory behavior of white-nosed coatis, 45:329–331.
Hass, Christine C., Gestation periods and birth weights of desert bighorn sheep in relation to other Caprinae, 40:139–147
Hastospiculum, 42:330
Hatfield, Brian B., see Rathbun, Galen B., —
Havardia pallens, 43:42–44
Hawaiia minuscula, 38:294, 38:295, 42:472, 42:473
Hayes, Floyd E., see Baker, William S., —
Haynes, Lisa A., see Germaine, Stephen S., —
Haynie, Michael R., and Alec Knight, Color pattern variants in the Trans-Pecos copperhead, 43:499–500

Haynie, Michael T., see Clark, Bryon K., —
He, Kan, see Diamond, David D., —
Hechtia, 43:39
scariosa, 37:275
Hedeoma
acinoides, 45:103
drummondii, 45:105
hispida, 40:137
Hedruris, 46:228
Hedyotis nigricans, 37:368, 37:369, 44:266, 45:413
Heese, Bryce, see Smith, Rosemary J., and —
Heffernan, Michael, see Halfpenny, James, and —
Heicher, Bill, see Tischendorf, Jay W., —
Heidt, Gary A., see Caster, Paul T., —
Heidt, Gary A., see Elrod, Douglas A., —
Heimia salicifolia, 44:458
Hein, Eric W., and Orrin B. Myers, The effect of surveyor experience on frequency of recapture in pierid butterflies, 45:67–69
Hein, Eric W., and William F. Andelt, Coyote visitations to experimentally-placed deer carrion, 41:48–53
Hein, Eric W., and William F. Andelt, Evaluation of indices of abundance for an unexploited badger population, 40:288–292
Heinzelmann, Frederick, see Ellis, Lisa M., —
Heitschmidt, Rodney K., see Weltzin, Jake F., —
Helenium amarum, 40:271, 45:412
Helianthus, 40:162, 41:54, 42:66, 42:319, 42:410, 43:498, 46:239, 46:240, 46:242, 46:339
annuus, 38:225, 41:404, 42:416, 43:63, 43:314, 45:17, 45:47, 45:418, 45:419
californicus, 42:416
grosseserratus, 44:439
hirsutus, 45:18, 45:19, 45:401, 45:402, 45:405, 45:409, 45:413
mollis, 45:412
nuttallii, 42:416
paradoxus, 42:367, 42:416–422, 43:313–320
petiolaris, 38:225, 38:226, 38:232, 38:233, 42:416, 43:314, 44:431, 44:432, 44:434, 44:442, 45:89, 45:92, 45:93, 45:419
Heliaula rufa, 39:22
Helichus, 44:24
Helicodiscus singleyanus, 42:472, 42:473
Heliconius ismenius, 45:296
Helicopsyche, 44:24
borealis, 38:22
Helicopsychidae, 37:171, 38:22, 42:151, 44:24
Helietta parvifolia, 43:42
Heliomeris multiflora, 46:286
Heliotropium, 45:106
convolulaceum, 38:225
curassavicum, 40:400, 45:437
curvassavicum, 45:414
tenellum, 37:368, 37:369, 45:95, 45:96, 45:102–104, 45:413
Heliozelidae, 38:3
Helisoma anceps, 43:285
Helix aspersa, 42:472, 42:474, 44:90–93, 44:93–96
Hellgren, E. C., see Maehr, D. S., —
Hellgren, Eric C., see Taylor, Richard B., and —
Hellgren, Eric C., Status, distribution, and summer food habits of black bears in Big Bend National Park, 38:77–80
Hellumorphoides texanus, 37:106, 37:111, 37:114
Helminth assemblage of an endemic madtom catfish (*Noturus lachneri*), structure of the, Riccardo A. Fiorillo, R. Brent Thomas, Melvin L. Warren, Jr., and Christopher M. Taylor, 44:522–526
Helminth communities of subpopulations of the Pacific treefrog, *Hyla regilla* (Hylidae), from Baja California, México, Stephen R. Goldberg, Charles R. Bursey, and Erik W. A. Gergus, 46:223–230
Helminth community structure of *Chirostoma attenuatum* (Osteichthyes: Atherinidae) in two Mexican lakes, Elsa Espinosa-Huerta, Luis Garcia-Prieto, and Gerardo Pérez-Ponce de León, 41:288–292
Helminthoglyptidae, 38:295
Helminths from mallard ducks, *Anas platyrhynchos*, wintering in the post-oak savannah of southcentral Texas, Norman O. Dronen, James R. Lindsey, Lisa M. Ross, and George M. Krise, 39:203–205
Helminths of isolated montane populations of Yarrow's spiny lizard, *Sceloporus jarrovii* (Phrynosomatidae), Stephen R. Goldberg, Charles R. Bursey, and Robert L. Bezy, 40:330–333
Helminths of the plains leopard frog, *Rana blairi* (Ranidae), Stephen R. Goldberg, Charles R. Bursey, and James E. Platz, 45:362–366
Helms, Ken R., and S. Bradleigh Vinson, Coexistence of native ants with the red imported fire ant, *Solenopsis invicta*, 46:396–400
Heloderma
horridum, 39:172, 46:405–407
suspectum, 37:325, 42:330, 46:405–407
Helophorus, 42:261
Helpers in the bridled titmouse, Jorge Nocedal and Millicent S. Ficken, 43:279–282
Hemaris diffinis, 42:89
Hemerodromia, 44:24
Hemerotrecha
elpasoensis, 45:447
fruitana, 45:443, 45:445–448
Hemiargus
ceraunus, 39:142
isola, 39:142, 44:378
Hemidactylus
frenatus, 39:172
turcicus, 43:9
Hemihalea edwardsi, 40:232, 40:233
Hemiptera, 40:249–254, 41:1–26, 45:15–23
Hemiramphidae, 44:168
Hemirrhagus, 45:302
Hemitragus
hylocrius, 40:147
jayakari, 40:147
jemlahicus, 40:147
Hemizonia, 42:359
Hendricks, Paul, and Dan L. Reinking, Investigator visitation and predation rates on bird nests in burned and unburned tallgrass prairie in Oklahoma: an experimental study, 39:196–200
Hendrickson, Dean A., see Anderson, Allison A., and —
Hendrickson, Dean A., see Stephens, Matt J., and —
Henicorhina leucosticta, 43:232
Henke, Scott E., and Steven A. Smith, Use of aluminum foil balls to determine home ranges of woodrats, 45:352–355
Henning, Blake L., see Robel, Robert J., —
Hensley, Rebecca A., Michael J. McCoid, and Carl A. Luer, Litter variation in the Atlantic guitarfish (Rhinobatidae: *Rhinobatos lentiginosus*) with comments on distribution in the Gulf of Mexico, 43:501–504
Hepatozoon, 42:330
Heptagenia
coxalis, 38:260
criddlei, 38:261
diabasia, 38:260, 38:269
elegantula, 38:260
flavianula, 38:262
simplicioides, 38:261
solitaria, 38:260, 38:269
Heptageniidae, 37:170, 38:259, 38:268, 39:61, 39:251, 41:70–72, 42:151, 44:24
Heracleum
lanatum, 45:18
sphondylium, 43:214
Herbertia lahue, 45:232–234

Hernandez, G., see Aguilera, C., —
Hernández, Silvia, see Sosa-Escalante, Javier, —
Hernández-Huerta, Arturo, Vinicio J. Sosa, J. Marcelo Aranda, and Joaquín Bello, Records of small mammals in the Calakmul Biosphere Reserve, Yucatán Peninsula, 45: 340–344
Herpetofauna associated with arroyos and uplands in foothills of the Chihuahuan Desert, Eric E. Jorgensen and Stephen Demarais, 43: 441–448
Herrera-Castillo, José M., see García de León, Francisco J., —
Herrmann, Scott J., see Cook, Jerry L., and —
Heske, Edward J., Daniel L. Rosenblatt, and Derrick W. Sugg, Population dynamics of small mammals in an oak woodland-grassland-chaparral habitat mosaic, 42:1–12
Hesperaloe, 41:469
funifera, 42:182
parviflora, 41:465, 41:467, 42:182–187
Hesperiidae, 44:378, 45:3
Hesperochernes occidentalis, 41:145
Hesperoleucus symmetricus, 44:297
Hesperoperla, 42:500
pacifica, 39:251, 42:498, 42:499
Hesperophylax occidentalis, 39:252
Hesperostipa comata, 46:285
Hesperotettix viridis, 37:364–367, 37:368, 37:370, 39:22
Heteranthera, 38:372
bimaculata, 44:168, 44:170
formosa, 38:370, 38:371
Heteranthera limosa, 44:443, 45:418
Heterocloeon, 38:252
frivolum, 38:258, 38:270
Heterocypris
antillensis, 41:453, 41:454
fretensis, 41:453, 41:454
incongruens, 41:453, 41:454
Heterodon
nasicus, 42:330
platirhinos, 43:10
Heteromeles arbutifolia, 39:355, 42:119–121, 45:124, 45:509
Heteromyidae, 37:1–8, 37:231, 38:224, 40:104–107, 44:240–241, 45:490–507, 46:243–245
Heteromys
desmarestianus, 45:342
gaumeri, 45:342
Heteropogon contortus, 43:451, 46:248
Heterotheca, 45:18, 45:19, 46:240–242
psammophila, 38:225
subaxillaris, 44:265–267, 44:269, 45: 431, 45:434–436, 45:438, 45:439, 45:441
Heterothops carbonatus, 37:105, 37:106, 37:113
Hexagenia, 38:256
bilineata, 39:58
limbata, 38:264
Hibiscus
laevis, 45:411, 45:416–419
rosa-sinensis, 43:75
tiliaceus, 41:436
Hickman, Graham C., see Woodin, Marc C., —
Hieracium fendleri, 46:286
Higginbotham, Jana L., Loren K. Ammerman, and Michael T. Dixon, First record of *Lasiurus xanthinus* (Chiroptera: Vespertilionidae) in Texas, 44:343–347
Higginbotham, Jana L., Michael T. Dixon, and Loren K. Ammerman, Yucca provides roost for *Lasiurus xanthinus* (Chiroptera: Vespertilionidae) in Texas, 45:338–340
Hilaria, 38:151
belangeri, 38:142, 40:273–280, 41:251–256, 42:441–443, 44:7, 44:8, 44:11, 44:12, 44:14, 45:105
jamesi, 45:444
jamesii, 39:53, 39:299, 40:281–287, 45: 406, 45:414
mutica, 39:122–127, 39:306, 43:165, 43:166, 44:531, 45:315, 45:316, 46: 333
rigida, 43:397, 45:185
Hill, Jeffrey P., see Ivanyi, Craig, S., —
Hilliard, Julian, see Kirkland, Henry, J., Jr., and —
Himantopus mexicanus, 37:400, 38:61, 41:348–354, 45:523–524
Hinchman, Virginia H., and Karl W. Birkeland, Age prediction based on stem size for riparian cottonwood stands, 40:406–409
Hiodon alosoides, 42:282, 45:278
Hiodontidae, 42:282, 42:287
Hippocrateaceae, 46:403
Hirschfeldia incana, 42:359, 42:360
Hirudo nipponica, 42:332
Hirundinidae, 38:62, 42:226
Hirundo
pyrrhonata, 40:97
pyrrhonota, 37:388, 37:398, 37:400, 40:357, 42:226, 45:477, 45:480
rustica, 37:388, 37:400, 38:62, 40:357, 42:226, 44:414, 44:486, 44:497, 44: 541, 45:477–482
Hister, 37:107
Histeridae, 37:107, 45:464
Histiotus, 38:112
macrotus, 44:327
Historic aerial photography to study vegetation change in the Negrito Creek watershed, southwestern New Mexico, use of, Mark E. Miller, 44:121–137
Hjelle, Brian L., see Biggs, James R., —
Ho, Mengchi, Rachel E. Roisman, and Ross A. Virginia, Using strontium and rubidium tracers to characterize nutrient uptake patterns in creosotebush and mesquite, 41: 239–247
Hoagland, Bruce, The vegetation of Oklahoma: a classification for landscape mapping and conservation planning, 45:385–420
Hoagland, Donald B., Feeding ecology of an insular population of the black-tailed jackrabbit (*Lepus californicus*) in the Gulf of California, 37:280–286
Hoagstrom, Christopher W., see Echelle, Anthony A., —
Hobbes, Amber L., see Propst, David L., —
Hobgood, Joshua D., see Martinez, Patrick J., —
Hoffman, M. T., C. D. James, G. I. H. Kerley, and W. G. Whitford, Rabbit herbivory and its effect on cladode, flower and fruit production of *Opuntia violacea* var. *macrocentra* (Cactaceae) in the northern Chihuahuan Desert, New Mexico, 38: 309–315
Hoffman, M. T., see Milton, Suzanne J., —
Hoffman, Stephen W., see Brown, Bryan T., —
Hoffmann, Robert S., see Long, Charles A., and —
Hoffmanseggia tenella, 42:38
Hoffmanseggia, 38:225
Hohman, William L., and David M. Richard, Timing of remigial molt in fulvous whistling ducks nesting in Louisiana, 39:190–192
Hohman, William L., C. Davison Ankney, and Douglas L. Roster, Body condition, food habits, and molt status of late-wintering ruddy ducks in California, 37:268–273
Hohman, William L., Prevalence of double wing molt in free-living ruddy ducks, 41:195–198
Holbrookia maculata, 43:498, 46:173, 46: 174
Holder, Tom, see Peterson, Chris L., —
Holechek, J. L., see Clemente, F., —
Holechek, Jerry L., Ackim Tembo, Alipayou Daniel, Michael J. Fusco, and Manuel Cardenas, Long-term grazing influences on Chihuahuan Desert rangeland, 39:342–349
Holechek, Jerry L., see Smith, Christine, —
Holland, Dan, see Rathbun, Galen B., —
Holmes, Walter C., see Singhurst, Jason R., —

Holmstead, Gary L., see Otten, Mark R. M., and —
Holocene record for Preble's shrew (*Sorex preblei*) in New Mexico, first, Gordon L. Kirkland, Jr. and James S. Findley, 41:320–322
Holodiscus dumosus, 46:195
Hololena hola, 46:209
Holshuh, H. J., see Goldberg, Stephen R., —
Holte, Aurali E., and Marilyn A. Houck, Juvenile greater roadrunner (Cuculidae) killed by choking on a Texas horned lizard (Phrynosomatidae), 45:74–76
Holycross, Andrew T., Larry K. Kamces, and Charles W. Painter, Observations of predation on *Crotalus willardi obscurus* in the Animas Mountains, New Mexico, 46:363–364
Holycross, Andrew T., see Goldberg, Stephen R., and —
Holycross, Andrew T., see Smith, Lawrence J., —
Home range of breeding common ravens in coastal southern California, George M. Linz, C. Edward Knittle, and Richard E. Johnson, 37:199–202
Home range use by Abert squirrels: a comparative analysis, Margaret E. Halloran and Marc Bekoff, 45: 253–257
Homerding, Todd R., see Clark, Bryon K., —
Homocyclops ater, 43:258
Homoeoneuria, 38:268
Homolocranium boulengeri, 45:142
Homoptera, 41:136–139
Honeycutt, Rodney L., see Walker, Christopher W., —
Hook, Allan W., New distribution records of aculeate wasps in Texas and adjacent states (Hymenoptera: Sphecidae, Pompilidae, Mutillidae), 43:249–255
Hoplisoides placidus, 43:252
Hoplocercidae, 43:6
Hoplonemertea, 42:162–169
Hoplopsyllus anomalus, 46:96
Hopton, Matthew E., Harvester ants (*Pogonomyrmex occidentalis*) and pocket gopher (*Thomomys talpoides*) mounds on a shortgrass steppe in Colorado, 46:209–213
Hordeum
depressum, 40:394
glaucum, 41:130
jubatum, 39:186, 42:318, 44:437–439, 44:443, 45:412, 45:414, 45:419, 46: 285
marinum, 40:396, 40:401, 45:112
pusillum, 45:435, 45:442
Horn, Michael J., Paul C. Marsh, Gordon Mueller, and Tom Burke, Predation by odonate nymphs on larval razorback suckers (*Xyrauchen texanus*) under laboratory conditions, 39:371–374
Horn, Mike, see Mueller, Gordon, —
Horne, Francis, and Ari Kahn, Phylogeny of North American wild rice, a theory, 42:423–434
Horne, Francis R., Ostracods of Texas playas, 41:450–455
Horne, Francis R., Thomas L. Arsuffi, and Raymond W. Neck, Recent introduction and potential botanical impact of the giant rams-horn snail, *Marisa cornuarietis* (Pilidae), in the Comal Springs ecosystem of central Texas, 37:194–196
Horner, Margaret A., see Fleming, Theodore H., —
Host identified for *Rhynchophion flammipennis* (Hymenoptera: Ichneumonidae), Karen Kester and James Tuttle, 44:87–88
Host range and oviposition behavior of *Ochrimnus mimulus* (Hemiptera: Lygaeidae) in central Texas, the, Georgianna G. Gould and Merrill H. Sweet, II, 45:15–23
Host specialization and partial reproductive isolation in desert mistletoe (*Phoradendron californicum*), Jacob McC. Overton, 42:201–209
Houck, Marilyn A., see Holte, Aurali E., and —
House construction by the southern plains woodrat (*Neotoma micropus*) in southwestern Oklahoma, Kathleen M. Thies, Monte L. Thies, and William Caire, 41:116–122
Houstonia
humifus, 38:225
subviscosa, 45:434, 45:442
Howard McCarley 1926–1999, Steven Goldsmith, 44:545–546
Hoyt, Reginald A., J. Scott Altenbach, and David J. Hafner, Observations on long-nosed bats (*Leptonycteris*) in New Mexico, 39:175–179
Hubbard, Tani, Debra M. Conta, and Steven E. Smith, Seed production and pollen tube growth following cross- and self-pollinations in *Sphaeralcea laxa* Woot. & Standl., 38:331–335
Hubbs, Clark, see Anderson, Allison A., —
Hubbs, Clark, see Rhodes, Kevin, and —
Hubbs, Clark, Survival of *Gambusia affinis* in a hostile environment, 45: 521–522
Hubert, Wayne A., see Wilson, Erika C., —
Huckaby, Laurie Stroh, and W. H. Moir, Forest communities at Fraser Experimental Forest, Colorado, 43:204–218
Huenneke, Laura F., see Miller, Richard E., and —
Huenneke, Laura Foster, see Miller, Richard E., and —
Hunt, Jodee, see Cox, George W., and —
Hunt, John L., and Troy L. Best, Foods of northern bobwhites (*Colinus virginianus*) in southeastern New Mexico, 46:239–243
Husak, Jerry F., see Husak, Michael S., and —
Husak, Michael S., and Jerry F. Husak, Anting by a scissor-tailed flycatcher, 42:351–352
Husak, Michael S., Breeding season displays of the golden-fronted woodpecker, 41:441–442
Husak, Michael S., Seasonal variation in territorial behavior of golden-fronted woodpeckers in west-central Texas, 45:30–38
Huxley, Carmen, see Servín, Jorge, —
Huxman, Travis E., and Michael E. Loik, Seeds of *Yucca whipplei* var. *whipplei* germinate in the fruit, 41: 318–320
Hybanthus verticillatus, 45:105
Hybognathus, 42:281
amarus, 37:186
argyritis, 42:282
hankinsoni, 38:12, 42:282
nuchalis, 43:341
placitus, 38:12, 41:310, 41:312, 42: 112, 42:114, 42:117, 42:282, 43: 341, 45:278, 45:286, 45:287
Hybopsis
aestivalis, 37:180–184, 37:186
dorsalis, 38:12
Hybrid *Cnemidophorus* (Sauria: Teiidae) in Ninemile Valley of the Purgatoire River, Colorado, James M. Walker, Harry L. Taylor, and James E. Cordes, 39:235–240
Hydaticus, 44:24
Hydrangea arborescens, 45:410
Hydrilla, 38:392, 45:366
verticillata, 41:462–464
Hydrocotyle
bonariensis, 45:434, 45:435, 45:437, 45:441
verticillata, 45:411
Hydrocotyle umbellata, 45:405
Hydrometra martini, 42:261
Hydrophilidae, 37:170, 43:80, 43:81, 44:508
Hydrophyllidae, 38:170
Hydropsyche, 44:24

orris, 38:21
oslari, 44:23, 44:26, 44:27
rossi, 38:21
simulans, 38:19, 38:21
Hydropsychidae, 37:166, 37:168, 37:169, 37:171–173, 37:175, 37:176, 38:19, 38:21, 38:22, 39:252, 41:70–72, 41:384, 44:24, 44:155
Hydroptila, 44:24
angusta, 38:21
consimilis, 38:21
icona, 38:21
protera, 38:21, 38:22
rono, 39:252
waubesiana, 38:21, 38:22
Hydroptilidae, 37:166, 37:168, 37:169, 37:171–173, 37:175, 37:176, 38:19, 38:21, 38:22, 39:252, 41:384, 42:151, 44:24
Hygrohypnum luridum, 45:229
Hyla, 42:104
avivoca, 40:112, 40:113
chrysoscelis, 43:8
crucifer, 43:6
regilla, 39:324, 46:223–230
spinipollex, 38:100–104
squirella, 44:481
versicolor, 43:8
Hylabella, 38:159
Hylastes, 37:109, 37:114
Hylephila phyleus, 39:142
Hyles lineata, 39:340, 41:261, 42:89
Hyleus, 42:89
Hylidae, 38:100–104, 43:8, 46:223–230
Hylophilus ochraceiceps, 43:232
Hymenoclea, 43:49
monogyra, 46:401
salsola, 39:91, 39:365, 40:360, 41:130, 43:48, 44:368, 46:67
Hymenolobus procumbens, 40:394, 40:398, 40:402, 40:403
Hymenopappus flavescens, 43:165, 43:166
Hymenoptera, 38:388–389, 43:249–255, 43:333–335, 44:87–88, 44:379–382, 44:457–461, 46:221–222
Hymenoxys
linearifolia, 40:271
scaposa, 45:413
Hyparrhenia rufa, 44:479
Hypaurotis crysalus, 44:378
Hyperaspidius vittigerus, 46:209
Hyperaspis
punctata, 46:209
trifurcata, 37:108, 37:113, 37:115
Hypericum
densiflorum, 45:400
hypericoides, 45:405
prolificum, 45:405, 45:410
Hyphessobrycon compressus, 44:168, 44:170
Hypnum revolutum, 45:229
Hypochlora alba, 46:208, 46:209
Hypoderaeum conoideum, 39:204, 40:326
Hypolagus
furlongi, 38:116
gidleyi, 41:207
Hypolithus, 37:106
Hypopachus variolosus, 44:480
Hypoponera, 45:465, 46:397–399
opaciceps, 44:281
Hypostomus, 46:99–102
Hypoxis hirsuta, 45:413
Hypsiglena torquata, 39:172, 43:443, 43:445
Hypsimys budini, 44:329
Hypsoroph monilis, 39:339
Hypsurus caryi, 38:220
Hyptis
albida, 46:4, 46:5
emoryi, 38:208
Hysterocarpus traskii, 38:218, 38:221
Hystrichopsyllidae, 46:95
Hystrichopsylla
dippiei, 46:95
occidentalis, 46:94, 46:95

Ibáñez, Carlos, Ricardo Lopez-Wilchis, Javier Juste B., and Miguel Angel León-Galván, Echolocation calls and a noteworthy record of *Pteronotus gymnonotus* (Chiroptera, Mormoopidae) from Tabasco, Mexico, 45:345–347
Ibarra, Laura, see Alvarado, Javier, —
Icaricia acmon, 44:378
Ichnanthus pallens, 43:74–76
Ichneumonidae, 37:171, 44:87–88
Ichthyofaunal decline in Ute Creek, South Canadian River Drainage, New Mexico, John S. Pittenger and Gary Schiffmiller, 42:112–117
Ichthyomyzon
castaneus, 44:106
gagei, 44:107
Ichthyophthirius, 39:229
Ictaluridae, 37:140, 39:217–223, 40:316, 40:319, 42:282, 42:283, 42:287, 45:271, 46:218, 46:220
Ictalurus, 37:12, 37:13
dugesi, 39:107
furcatus, 37:262–264
lupus, 37:262–264
melas, 37:17, 37:262–264
natalis, 37:262–264
pricei, 39:227
punctatus, 37:140, 37:142, 37:143, 37:180–184, 37:262–265, 37:358, 38:12, 38:397, 39:228, 39:390, 41:75, 41:302, 41:312, 41:375–377, 42:268, 42:282, 44:386, 45:279, 46:217
Icteria virens, 42:227, 43:453, 43:456, 45:163
Icterus
bullockii, 43:456
cucullatus, 40:358
galbula, 37:297, 40:66, 42:141
parisorum, 37:389, 37:390, 38:46, 40:358, 42:227
spurius, 40:358, 42:127
Ictinia mississippiensis, 42:104, 44:486
Ictiobus
bubalus, 37:262–264, 41:301, 41:302, 45:278, 46:23, 46:24
cyprinellus, 42:282, 45:278
Ideoroncidae, 44:138–147
Idioneyctris, 38:117
phyllotis, 37:429–430, 43:266, 44:496, 44:502–506, 46:374
Idria columnaris, 46:245
Iguana iguana, 39:174, 40:234–237
Iguanidae, 37:349–355, 38:164, 39:40–44, 43:6
Ilex
decidua, 45:400, 45:402–405
opaca, 45:400, 45:404, 45:405
vomitoria, 37:327, 39:339
Iliamna
corei, 42:384–399
remota, 42:391, 42:392
rivularis, 42:384–399
Hyocryptus spinifer, 40:323, 40:324
Imantodes
gemmistratus, 44:481
gemnistratus, 39:172
gracillimus, 44:481
Impact of mainstream impoundment on the distribution and movements of the resident flannelmouth sucker (Catostomidae: *Catostomus latipinnis*) population in the White River, Colorado, Thomas E. Chart and Eric P. Bergersen, 37:9–15
Impatiens capensis, 45:408
Imported fire ants impact canopy arthropods? Evidence from simple arboreal pitfall traps, do, Michael Kaspari, 45:118–122
Indices of abundance for an unexploited badger population, evaluation of, Eric W. Hein and William F. Andelt, 40:288–292
Indigofera miniata, 44:267, 45:433–435, 45:437, 45:441
Inefficient nitrogen resorption in a population of ocotillo (*Fouquieria splendens*), a drought-deciduous desert shrub, Keith T. Killingbeck, 37:35–42
Influence of relative abundance of red imported fire ants (*Solenopsis invicta*) on small mammal captures, David K. Ferris, M. J. Killion, K. P. Ferris, W. E. Grant, and S. B. Vinson, 43:97–100
Inga, 38:81
Iniestra, Rodolfo, see Castillo-Rivera, Manuel, —
Insect dispersal in a drying desert stream: effects of temperature and water loss, Josefa Velasco and Andres Millan, 43:80–87

Insect fossil evidence of late Quaternary environments in the northern Chihuahuan Desert of Texas and New Mexico: comparisons with the paleobotanical record, Scott A. Elias and Thomas R. Van Devender, 37:101–116
Insecta, 38:19–23, 39:83–88
Insectivora, 44:334–342
Interactions between coyotes (*Canis latrans*) and mountain sheep (*Ovis canadensis*), Vernon C. Bleich, 41: 81–82
Interactions between seedlings of an early and a late successional woody species, J. K. Bush and O. W. Van Auken, 40:379–387
Intercanopy bare patches in *Juniperus* woodlands of the southern Edwards Plateau, Texas, characteristics of, O. W. Van Auken, 45:95–110
Intestinal helminths of mottled ducks, *Anas fulvigula maculosa*, from the East Texas gulf coast, Jennifer L. Schmid, Norman O. Dronen, and Merrill H. Sweet, III, 40:325–327
Intraspecific male aggression in *Arenotherus joshuaensis* Brookhart and Muma, and *Eremobates marathoni* Muma (Solifugae, Eremobatidae), Fred Punzo, 43:291–295
Introduced populations of fox squirrel (*Sciurus niger*) in the Trans-Pecos and Llano Estacado regions of New Mexico and Texas, Jennifer K. Frey and Mariel L. Campbell, 42:356–358
Introduction and potential botanical impact of the giant rams-horn snail, *Marisa cornuarietis* (Pilidae), in the Comal Springs ecosystem of central Texas, recent, Francis R. Horne, Thomas L. Arsuffi, and Raymond W. Neck, 37:194–196
Inula crithmoides, 40:397, 40:401
Inulo crithmoidis, 40:394, 40:395, 40:403
Invertebrate community of Roaring Springs Cave, Grand Canyon National Park, Arizona, Charles A. Drost and Dean W. Blinn, 42:497–500
Investigator visitation and predation rates on bird nests in burned and unburned tallgrass prairie in Oklahoma: an experimental study, Paul Hendricks and Dan L. Reinking, 39:196–200
Ipomea, 41:458
Ipomoea, 43:276, 45:433
arborea, 44:112
cristulata, 46:402
imperati, 44:265, 44:267–269, 45:431, 45:434, 45:436–439, 45:441
pes-caprae, 41:435, 44:263, 44:264, 44: 268, 45:434, 45:436–438, 45:441
stolonifera, 41:435, 44:268, 44:269
Ireland, Terry T., Gale L. Wolters, and Sanford D. Schemnitz, Recolonization of wildlife on a coal strip-mine in northwestern New Mexico, 39:53–57
Iridaceae, 45:441
Iridoprocne bicolor, 40:167
Iron
albertae, 38:260, 38:261, 39:251, 39: 254
deceptivus, 38:260
longimanus, 38:260, 38:261, 38:269
propius, 38:261
tollandi, 38:260
Ironopsis, 38:252
grandis, 38:261
Ischnopsyllidae, 46:95
Ischnuridae, 37:131
Isocoma
coronopifolia, 39:73
drummondii, 43:276, 43:277
tenuisecta, 38:346, 46:82, 46:355
Isoetes butleri, 44:442
Isogenus, 42:500
Isomeris arborea, 39:91, 40:360, 41:130, 44:368, 46:67
Isonychia, 38:256
campestris, 38:259
rufa, 38:259, 38:269, 39:60
Isonychiidae, 38:259, 39:61
Isoperla, 44:24
fulva, 39:251
Isotomurus, 42:261
Isotria medeoloides, 37:302
Ithytrichia clavata, 38:21
Itura
aurita, 45:369
myersi, 45:369
Iva
angustifolia, 44:266, 45:434, 45:435, 45:441
annua, 45:388, 45:390, 45:420
axillaris, 45:413, 45:414
ciliata, 45:415
Ivanyi, Craig S., Jeffrey P. Hill, and William J. Matter, Time of spawning by desert sucker, 40:425–426
Iverson, John B., Reproduction of the river cooter, *Pseudemys concinna*, in Arkansas and across its range, 46: 364–370
Ixobrychus exilis, 41:345
Ixodes, 43:147, 43:149, 43:150
kingi, 43:477, 43:478
sculptus, 43:477, 43:478
Ixodidae, 37:110, 42:332

Jackson, Victoria L., and Jerry R. Choate, Dens and den sites of the swift fox, 45:212–220
Jacquemontia abutiloides, 37:282
Jaffueliobryum
raui, 45:229
wrightii, 45:229
Jaguars (*Panthera onca*) in the southwestern United States, the present status of, Alan R. Rabinowitz, 44: 96–100
Jaguars in Arizona and New Mexico, notes on the occurrences of, David E. Brown and Carlos A. López González, 45:537–542
James, Brenda, see Zale, Alexander V., —
James, C. D., see Hoffman, M. T., —
James, Paul W., see Zale, Alexander V., —
James, Steven R., Archaeofaunal remains of common carp (*Cyprinus carpio*) from a historic Pima campsite in southern Arizona, 38:280–281
Janecek, Laura L., see Best, Troy L., and —
Janecek, Laura L., The Southwestern Association of Naturalists minutes of the annual business meeting Centenary College of Louisiana and Louisiana State University in Shreveport Friday, 7 April 1995, 40:448–451
Janecek, Laura L., The Southwestern Association of Naturalists minutes of the annual business meeting: Emporia State University, Emporia, Kansas, Friday, 22 April 1994, 39:402–405
Janecek, Laura L., The Southwestern Association of Naturalists minutes of the annual business meeting, Southwest Missouri State University, Springfield, Missouri, Friday, 16 April 1993, 38:413–416
Janecek, Laura L., The Southwestern Association of Naturalists minutes of the meeting of the Annual Business Meeting, Texas Tech University Center at Junction, Junction, Texas, Friday, 10 April 1992, 37: 440–442
Janecek, Laura L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers Centenary College, Shreveport, Louisiana, Thursday, 6 April 1995, 40:442–447
Janecek, Laura L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers: Emporia State University, Emporia, Kansas, Thursday, 21 April 1994, 39:396–401
Janecek, Laura L., The Southwestern

Association of Naturalists minutes of the meeting of the Board of Governors and Officers Southwest Missouri State University, Springfield, Missouri, Thursday, 15 April 1993, 38:407–412
Janecek, Laura L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Texas Tech University Center at Junction, Junction, Texas, Thursday, 9 April 1992, 37:436–439
Janssen, Gena K., see Williamson, Paula S., —
Janusia gracilis, 46:402, 46:403
Jatropha, 41:258
cardiophylla, 44:142, 44:544
cinerea, 42:108
cuneata, 37:281–284
dioica, 40:355, 43:200, 43:276, 43:277, 46:401
Jaumea carnosa, 40:399, 40:401
Jaumea, 40:401
carnosae, 40:394
Jefea brevifolia, 45:339
Jeffers, Richard M., see Rehfeldt, Gerald E., —
Jefferson, Thomas A., Estimates of abundance of cetaceans in offshore waters of the northwestern Gulf of Mexico, 1992–1993, 41: 279–287
Jefferson, Thomas A., see Barron, Gina L., and —
Jeffersonia
diphylla, 38:91, 38:93, 38:98
dubia, 38:91
Jemison, Roy, see Danzer, Steven J., —
Jenkin, John D., see Gold, John R., —
Jepson-Innes, Karen A., see Neal, Paul R., —
Jeske, Clinton W., Factors influencing size of the wintering mallard population in the San Luis Valley, Colorado, 38:155–156
Johns, Paul E., see Peles, John D., —
Johnson, Brett M., see Martinez, Patrick J., —
Johnson, Brett M., see Swift-Miller, Susan M., —
Johnson, Clarence Dan, see Nilsson, Jan A., and —
Johnson, James E., see Means, Myron L., and —
Johnson, Kevin W., see Robel, Robert J., —
Johnson, Kristine, Patricia Mehlhop, Charles Black, and Kim Score, Reproductive failure of endangered southwestern willow flycatchers on the Rio Grande, New Mexico, 44: 226–231
Johnson, Lacrecia A., see Clark, Bryon K., —
Johnson, Mary P., see Nelson, Allan D., —
Johnson, Michael L., see Mayfield, Rick L., —
Johnson, Ned K., see Cicero, Carla, and —
Johnson, Ned K., Seven avifaunal censuses spanning one-half century on an island of white firs (*Abies concolor*) in the Mojave Desert, 40: 76–85
Johnson, Richard E., see Linz, George M., —
Johnson, Ronald L., Fang Qing Liang, and Jerry L. Farris, Genetic diversity among four amblemini species (Bivalvia: Unionidae) in the Cache and White rivers, Arkansas, 43: 321–332
Johnson, Stephen R., Observations on an autumn flowering population of prairie nymph (*Herbertia lahue* ssp. *caerulea*) in southwestern Louisiana, 45:232–234
Johnson, Therese L., see Muths, Erin, —
Johnson, Whitney C., A new individual marking technique: positional hair clipping, 46:126–129
Johnson, William P., and Frank C. Rohwer, Disturbance of wintering green-winged teal and mallards by raptors, 41:331–334
Johnston, Carol E., Spawning behavior of the paleback darter, *Etheostoma pallididorsum*, (Percidae), 40: 422–425
Jones, F. Andrew, and David L. Gorchov, Patterns of abundance and human use of the vulnerable understory palm, *Chamaedorea radicalis* (Arecaceae), in a montane cloud forest, Tamaulipas, Mexico, 45:421–430
Jorgensen, Eric E., and Stephen Demarais, Herpetofauna associated with arroyos and uplands in foothills of the Chihuahuan Desert, 43:441–448
Jorgensen, Eric E., Scott M. Sell, and Stephen Demarais, Barn owl prey use in Chihuahuan Desert foothills, 43:53–56
Jorgensen, Eric E., see Root, J. Jeffrey, —
Jorgensen, Eric E., Stephen Demarais, and William R. Whitworth, The effect of box-trap design on rodent captures, 39:291–294
Judd, Frank W., see Everitt, James H., —
Judd, Frank W., see Lonard, Robert I., —
Juglandaceae, 44:507
Juglans, 41:214, 44:341
major, 38:2, 44:401, 44:403, 45:8, 45: 9, 45:170, 46:63, 46:195, 46:199
microcarpa, 42:356, 45:404
nigra, 40:135, 44:427, 44:428, 45:392, 45:400, 45:404, 46:179
Juncaceae, 37:55, 45:441
Juncetum
acuti, 40:401, 40:403
subulati, 40:394, 40:395, 40:401, 40: 403
Junco, 40:79
bairdi, 39:377
caniceps, 40:77, 40:80, 40:81
hyemalis, 37:399, 40:77, 40:80, 40:81, 40:88, 42:141
hyemalus, 43:457
hymenalis, 43:139
phaeonatus, 37:389
Juncus, 37:55, 37:368, 37:369, 40:403, 44:439
acutus, 40:400, 40:401
balticus, 37:299, 46:377
drummondii, 43:214
dudleyi, 40:137
effusus, 39:186, 45:415, 45:416, 45: 418
interior, 45:416
scirpoides, 45:435, 45:441
subulatus, 40:397, 40:401
torreyi, 42:224, 45:415, 45:417
Jung, Robin E., see Bonine, Kevin E., —
Juniper pinchotii, 38:143
Juniperus, 37:213, 37:357, 37:386, 37: 388, 37:434, 38:77, 38:79, 39:305, 40:182, 41:33, 41:153, 41:251, 42: 127, 42:133, 42:370, 44:14, 44:129, 44:341, 44:398, 45:35, 45:95–110, 46:183, 46:184, 46:191, 46:194, 46: 196, 46:199
ashei, 38:141–145, 40:274, 42:400, 42: 403, 42:405–408, 42:441–444, 43: 183, 43:184, 43:189, 44:6–16, 44: 12, 44:31–33, 44:190, 45:97, 45: 105, 45:119, 45:386, 45:388, 45: 390, 45:392, 45:406
californica, 46:2
californicus, 42:340
coahuilensis, 46:250
communis, 42:475, 43:210, 43:214
deppeana, 40:232
deppeana, 38:176, 39:180, 40:186, 40: 340, 41:227–238, 43:243, 44:1, 44: 121, 44:122, 44:127, 44:133, 44: 401, 44:502, 45:8, 45:9, 45:12, 45: 171, 45:172, 46:55, 46:62, 46:63, 46:195
monosperma, 37:387, 38:176, 39:53, 41:227, 43:123, 43:124, 43:470, 44:

7, 44:149, 45:386, 45:388, 45:406, 45:444, 46:195, 46:286
occidentalis, 44:133
osteosperma, 37:188, 38:176, 40:19, 40:77, 40:282, 40:407, 43:377, 44:13, 44:502, 45:314, 45:350
oteosperma, 43:138
pachyphlaea, 41:229
pinchotii, 43:184, 44:7, 44:491, 45:31, 45:386, 45:388, 45:391, 45:392, 45:406, 45:413
scapulorum, 45:39, 45:40, 45:172
virginiana, 37:327, 37:369, 38:146, 38:287, 38:325–330, 40:131, 40:135, 40:138, 40:162, 42:20, 42:177–178, 42:387, 43:184, 44:7, 44:407, 44:436, 44:442, 45:46, 45:388, 45:392, 45:405, 45:407, 45:417
virginianus, 40:168
Jurado, Enrique, see Flores, Joel, and —
Jurado, Enrique, see Rojas Agil, Mara, —
Jurena, P. N., and O. W. Van Auken, Woody plant recruitment under canopies of two acacias in a southwestern Texas shrubland, 43:195–203
Jusino-Atresino, Rafael, and Sherman A. Phillips, Jr., New ant records for Taylor Co., Texas, 37:430–433
Jussiaea peploides, 45:417, 45:418
Juste B., Javier, see Ibáñez, Carlos, —
Justicia americana, 37:317, 39:13, 45:415–419
Juvenile greater roadrunner (Cuculidae) killed by choking on a Texas horned lizard (Phrynosomatidae), Aurali E. Holte and Marilyn A. Houck, 45:74–76

Kahl, Joe, Jr., see Mueller, Gordon, —
Kahn, Ari, see Horne, Francis, and —
Kaldy, James E., Range extension of *Halimeda incrassata* (Chlorophyta, Bryopsidales): occurrence in the lower Laguna Madre of Texas, 41:419–423
Kalotermitidae, 37:110
Kamees, Larry K., see Holycross, Andrew T., —
Kamler, Jan F., Philip S. Gipson, and Trisha R. Snyder, Dispersal characteristics of young bobcats from northeastern Kansas, 45:543–546
Kamler, Jan F., see Gipson, Philip S., and —
Kamler, Jan F., Warren B. Ballard, and Danny A. Swepston, Range expansion of mule deer in the Texas Panhandle, 46:378–379
Kantak, Gail E., Terrestrial plant communities of the middle Niobrara Valley, Nebraska, 40:129–138
Karlin, Alvan A., Sheldon I. Guttman, and D. Bruce Means, Population structure in the Ouachita Mountain dusky salamander, *Desmognathus brimleyorum* (Caudata: Plethodontidae), 38:36–42
Karwinskia
humboldtiana, 43:277, 46:401
humboltiana, 43:276
Karyotype of *Peromyscus stirtoni* (Rodentia: Muridae), the, John A. Peppers, James G. Owen, and Robert D. Bradley, 44:109–112
Karyotype of the white-sided jackrabbit (*Lepus callotis*), Francisco X. Gonzáles and Fernando A. Cervantes, 41:93–95
Kaskey, Joseph B., see Simon, Thomas P., and —
Kaspari, Michael, Do imported fire ants impact canopy arthropods? Evidence from simple arboreal pitfall traps, 45:118–122
Kasper, Stephen, Mammals from the late Pleistocene Carrol Creek local fauna, Donley Co., Texas, 37:54–64
Kaufman, Donald W., Glennis A. Kaufman, and Bryon K. Clark, Small mammals in native and anthropogenic habitats in the Lake Wilson area of north-central Kansas, 45:45–60
Kaufman, Donald W., see Brillhart, Dennis E., and —
Kaufman, Donald W., see Matlack, Raymond S., —
Kaufman, Donald W., see McMillan, Brock R., —
Kaufman, Glennis A., see Kaufman, Donald W., —
Kaufman, Glennis A., see McMillan, Brock R., —
Kawashima, Jack Y., see Camp, Richard J., —
Kay, Fenton R., Influence of habitat vegetative condition on trap response of rodents associated with burrow mounds of *Dipodomys spectabilis* in a desert grassland, 43:269–273
Keck, Michael B., Habitat use by semiaquatic snakes at ponds on a reclaimed strip mine, 43:13–19
Keck, Michael B., see Gutberlet, Ronald L., Jr., —
Keeler, Kathleen H., Fifteen years of colony dynamics in *Pogonomyrmex occidentalis*, the western harvester ant, in western Nebraska, 38:286–289
Keeley, Jon E., see Schwilk, Dylan W., and —
Keim, Paul, see Miller, Mark P., —
Kelly, Jeffrey F., Deborah M. Finch, and Wang Yong, Vegetative associations of wood warblers migrating along the Middle Rio Grande Valley, New Mexico, 45:159–168
Kelting, Ralph W., Longevity of Illinois bundle flower (*Desmanthus illinoensis*) seeds, 39:212–213
Kemp, Kenneth E., see Robel, Robert J., —
Kennedy, James H., see DeWalt, R. Edward, —
Kennedy, Michael L., see Elrod, Douglas A., and —
Kennedy, Michael L., see Peppers, John A., —
Kennedy, Michael L., see Sikes, Robert S., and —
Kennedy, Patricia L., Dale W. Stahlecker, and Jeanne M. Fair, Organochlorine concentrations in potential avian prey of breeding peregrine falcons in north-central New Mexico, 40:94–100
Kennedy, Phyllis K., see Peppers, John A., —
Keratella, 37:339
americana, 45:367, 45:368
cochlearis, 45:367, 45:368
serrulata, 45:368
tropica, 45:367, 45:368
Kerley, G. I. H., see Hoffman, M. T., —
Kerley, G. I. H., see Milton, Suzanne J., —
Kermidae, 46:241
Kerns, Becky K., Diagnostic phytoliths for a ponderosa pine-bunchgrass community near Flagstaff, Arizona, 46:282–294
Kester, Karen, and James Tuttle, Host identified for *Rhynchophion flammipennis* (Hymenoptera: Ichneumonidae), 44:87–88
Kiesecker, J., see Woodward, B. D., and —
Kilambi, Raj V., see Phillips, Edward C., and —
Killingbeck, Keith T., Inefficient nitrogen resorption in a population of ocotillo (*Fouquieria splendens*), a drought-deciduous desert shrub, 37:35–42
Killion, M. J., see Ferris, David K., —
Killion, Michael J., and William E. Grant, Scale effects in assessing the impact of imported fire ants on small mammals, 38:393–396
Kimberling, Diana N., see Miller, Mark P., —
Kindscher, Kelly, see Lauver, Chris L., —
Kinkajou, *Potos flavus* (Carnivora: Procyonidae), from Isla Cozumel, Quintana Roo, Mexico, first re-

cord of the, Enrique Martínez-Meyer, Miguel Martínez-Morales, and Javier Sosa-Escalante, 43:101–102
Kinkajou, *Potos flavus* (Carnivora: Procyonidae) in Tamaulipas, Mexico, first record for the, Arnulfo Moreno-Valdez, 41:457–458
Kinler, Noel, see Elsey, Ruth M., and —
Kinosternidae, 43:9
Kinosternon
carinatum, 43:6
flavescens, 46:42
integrum, 39:172
leucostomum, 46:41
odoratum, 43:6, 43:9
sonoriense, 46:41–53
subrubrum, 46:41
Kinucan, Robert J., see Scholl, Elizabeth L., and —
Kirkland, Gordon L., Jr., and James S. Findley, First Holocene record for Preble's shrew (*Sorex preblei*) in New Mexico, 41:320–322
Kirkland, Henry J., Jr., and Julian Hilliard, Extinct musk ox from western Oklahoma, 41:190–191
Knapp, Alan K., see Axmann, Beverly D., and —
Kneeland, Mary C., John L. Koprowski, and Michelle C. Corse, Potential predators of Chiricahua fox squirrels (*Sciurus nayaritensis chiricahuae*), 40:340–342
Knight, Alec, see Haynie, Michael R., and —
Knight, Heather A. L., see Camp, Richard J., —
Knight, Jeremy G., see Stewart, Bruce G., —
Knight, Paul J., Spencer G. Lucas, and Anne Cully, Early Pleistocene (Irvingtonian) plants from the Albuquerque area, New Mexico, 41: 207–217
Knight, Richard L., see Camp, Richard J., —
Knight, Richard L., see Kralovec, Mary L., —
Knittle, C. Edward, see Linz, George M., —
Knops, Johannes M. H., see Barthell, John F., and —
Kochia, 42:138
americana, 40:288, 41:49
scoparia, 39:4, 39:56, 45:46, 45:388, 45:414, 45:419
sieversiana, 42:319
Koeberlinia spinosa, 43:276, 43:277
Koeleria, 46:286
macrantha, 46:285, 46:287, 46:292
pyramidata, 40:137
Koenig, Walter D., and Stanley H. Faeth, Effects of storage on tannin and protein content of cached acorns, 43:170–175
Koenig, Walter D., see Eichholz, Michael W., and —
Kogia
breviceps, 41:283
simus, 41:283
Köhler, Gunther, see McCranie, James R., and —
Kondratieff, Boris C., see McCafferty, W. P., —
Kopachena, Jeffrey G., Anthony J. Buckley, and Greg A. Potts, Effects of the red imported fire ant (*Solenopsis invicta*) on reproductive success of barn swallows (*Hirundo rustica*) in Northeast Texas, 45:477–482
Koprowski, John L., and Michelle C. Corse, Food habits of the Chiricahua fox squirrel (*Sciurus nayaritensis chiricahuae*), 46:62–65
Koprowski, John L., see Kneeland, Mary C., —
Kralovec, Mary L., Richard L. Knight, Gerald R. Craig, and Robert G. McLean, Nesting productivity, food habits, and nest sites of bald eagles in Colorado and southeastern Wyoming, 37:356–361
Krameria, 37:387, 38:227
glandulosa, 43:200
grayi, 46:5, 46:245, 46:274
parvifolia, 38:198
Kramp, B. A., R. J. Ansley, and T. R. Tunnell, Survival of mesquite seedlings emerging from cattle and wildlife feces in a semi-arid grassland, 43:300–312
Krascheninnikovia lanata, 44:442, 46:4, 46:5
Krausman, Paul R., John D. Wehausen, Mark C. Wallace, and Richard C. Etchberger, Rumen characteristics of desert races of mountain sheep and desert mule deer, 38:172–174
Krausman, Paul R., Josh T. Avey, and John C. Tull, Associations between desert mule deer and collared peccaries, 44:543–544
Krausman, Paul R., Lisa M. Fox, Richard C. Etchberger, and Kevin B. Fox, Desert mule deer use of altered vegetation along the Hayden-Rhodes Aqueduct, Arizona, 38:206–211
Krausman, Paul R., Richard C. Etchberger, and Raymond M. Lee, Persistence of mountain sheep populations in Arizona, 41:399–402
Krausman, Paul R., see Albert, Steven K., and —
Krausman, Paul R., see Bellantoni, Elizabeth S., and —
Krausman, Paul R., see Cashman, Jenny L., —
Krausman, Paul R., see Etchberger, Richard C., and —
Krausman, Paul R., see Fitzgerald, Christopher S., —
Krausman, Paul R., see Fox, Kevin B., and —
Krausman, Paul R., see Mazaika, Rosemary, —
Krausman, Paul R., see Tull, John C., —
Krausman, Paul R., see Zinc, Matthew J., and —
Kren, Josef, see Scharf, William C., and —
Kretzer, Justin E., and Jack F. Cully, Jr., Effects of black-tailed prairie dogs on reptiles and amphibians in Kansas shortgrass prairie, 46:171–177
Kricher, John C., and William E. Davis, Jr., Species richness and site fidelity among resident Neotropical birds, 43:228–233
Krigia gracilis, 40:271
Krings, Alexander, Vines of two Texan semi-arid desert communities: floristic composition and ecological notes, 46:400–404
Krise, George M., see Dronen, Norman O., —
Kubly, Dennis M., see Robinson, Anthony T., —
Kunzmann, Michael R., see Bennett, Peter S., and —
Kurzia latissima, 40:323, 40:324
Kuwayama medicaginis, 41:141, 41:142

Labiatae, 37:92, 38:96, 38:374, 45:95, 46:240
Labidesthes sicculus, 37:146, 40:320, 41: 302, 42:283, 42:285, 43:336, 43: 338, 43:340, 45:274, 45:277, 45: 279, 45:282, 45:285–287
Labidus
coecus, 43:335
coecus, 46:397, 46:399
praedator, 44:458, 44:459
Laboratory evidence for territorial behavior by the southern red-backed salamander, *Plethodon serratus*: influence of residency status and pheromonal advertisement, Alicia Mathis, Krista Deckard, and Connie Duer, 43:1–5
Laboratory hybridization of *Stator beali* and *S. limbatus*, with new host records for *S. limbatus* and *Mimosestes amicus* (Coleoptera: Bruchidae), Jan A. Nilsson and Clarence Dan Johnson, 38:385–387
Lacandoniaceae, 37:427
Laccophilus

fasciatus, 42:261
maculosus, 43:80–86
proximus, 42:261
Lacertilia, 41:103–110
Lachlania, 38:252
powelli, 38:259
saskatchewanensis, 38:259, 38:269
Lactobacillus, 38:74
Lactuca
canadensis, 45:417
serriola, 44:349, 45:47
Lacy, Sterling S., see Coldren, Mary K., —
Laemanctus serratus, 45:360
Lagenodelphis hosei, 41:283
Lagopus lagopus, 46:299
Laguncularia racemosa, 45:79
Laguncularietea racemosae, 40:389–391
Lambert, Billy C., Jr., and Stephen Demarais, Use of supplemental feed for ungulates by non-target species, 46:118–121
Lamiaceae, 38:390, 42:119
Lamium purpureum, 38:96
Lampetra, 39:105–113
appendix, 44:106–108
fluviatilis, 39:108, 41:372
geminis, 39:105–113, 41:365–374
planeri, 41:372
spadicea, 39:105–113, 41:365–374
tridentata, 39:109, 44:297
Lamponius portoricensis, 43:76
Lampropeltis
calligaster, 43:10
doliata, 42:331
getulus, 37:293, 42:233
pyromelana, 40:188, 45:173, 46:363
triangulum, 39:173, 40:122, 46:173, 46:174
Lampropeltus triangulum, 37:426
Lampsilis, 43:329
capax, 41:326
cardium, 41:326, 41:327, 42:334
fallaciosa, 41:326
gracilis, 41:326
hydiana, 41:326, 41:327
leptodon, 41:326
ligamentina, 41:326
parva, 41:326
purpurata, 41:326
satura, 41:326
siliquoidea, 41:326, 41:327, 42:334
teres, 41:326, 41:327, 42:334
ventricosa, 41:326
Lance, Richard F., and David L. Rogowski, Noteworthy record of the silver-haired bat (*Lasionycteris noctivagans*) in Louisisana, 44:241–242
Langlois, David, see Swift-Miller, Susan M., —
Langtimm, Catherine A., see Reid, Fiona A., and —
Laniidae, 42:227
Laniocera rufescens, 43:231
Lanius ludovicianus, 37:389, 38:46, 40:183, 40:357, 42:227, 44:486
Lantana
horrida, 43:200, 43:276, 43:277
urticoides, 45:438
Lapadella
apsida, 45:367
triba, 45:367
Lapara coniferarum, 44:87
Laportea canadensis, 45:410
Lappula schinata, 46:116
Laridae, 38:62, 42:225
Larrea, 37:386, 37:388, 37:390, 39:78–82, 42:225, 43:48–52, 45:458
divarica, 37:114
divaricata, 37:114, 38:77, 39:365, 45:451, 46:4, 46:5, 46:245
tridentata, 37:35, 37:40, 37:281–284, 37:387, 38:43, 38:48, 38:175, 38:198, 38:206, 38:208, 38:212–216, 38:225, 38:227, 38:310, 38:346, 39:123, 39:270, 39:292, 39:342, 40:355–359, 41:140, 41:184, 41:239–247, 41:248–250, 41:258, 41:315, 41:425, 41:427, 42:224, 42:240, 42:328, 43:35, 43:47, 43:54, 43:156, 43:165, 43:196, 43:234, 43:313, 43:318, 43:377, 43:391, 43:397, 43:408, 43:409, 43:450, 44:312, 44:354, 44:355, 44:491, 44:535, 45:185, 45:226, 45:313–321, 45:444, 46:89, 46:246, 46:274, 46:355, 46:401
LaRue, Charles T., see Frey, Jennifer K., and —
Larus, 39:186, 41:459
argentatus, 37:395, 37:397
californicus, 37:400, 39:287, 41:352, 42:225
delawarensis, 37:400, 41:352
heermanni, 38:62
livens, 42:302
marinus, 41:333
occidentalis, 38:60, 38:62
philadelphia, 37:395, 37:397, 38:62
pipixcan, 37:358
Larval black flies and horse flies in an Ozark headwater stream, occurrence of, David E. Bowles and Dennis D. Pinkovsky, 38:86–87
Larval development of the Cuatro Ciénegas cichlid, *Cichlasoma minckleyi*, Matt J. Stephens and Dean A. Hendrickson, 46:16–22
Larval light traps to capture razorback sucker (*Xyrauchen texanus*) in Lake Mohave, Arizona-Nevada, use of, Gordon Mueller, Mike Horn, Joe Kahl, Jr., Thomas Burke, and Paul Marsh, 38:399–402
Lasconotus, 37:108
Lash, Don, see Glenn, Edward, —
Lasia, 42:186
Lasioglossum, 42:89
morrilli, 40:429
Lasionycteris noctivagans, 38:111, 38:112, 39:177, 44:241–242, 44:399, 44:501–506, 45:350
Lasiorhinus krefftii, 45:261
Lasiurus
blossevillii, 38:111, 38:113, 38:114, 39:177, 44:327, 44:346, 44:399, 45:338
borealis, 38:111, 38:114, 39:177, 44:113, 44:241, 44:346, 44:399, 44:405, 45:338
cinereus, 39:177, 41:322, 41:323, 44:325–327, 44:345, 44:346, 44:398, 44:405, 44:501–506, 45:338, 45:350
ega, 39:177, 40:34, 44:343–346, 45:338
fossilis, 38:114
intermedius, 40:34, 44:346, 45:338
seminolus, 44:241
xanthinus, 44:343–347, 45:338–340
Lasiurus xanthinus (Chiroptera: Vespertilionidae) in Texas, first record of, Jana L. Higginbotham, Loren K. Ammerman, and Michael T. Dixon, 44:343–347
Lasius, 38:292, 45:465
flavus, 44:281, 46:211
pallitarsis, 44:278, 44:280–283
Lasmigona complanata, 42:334
Late Holocene plants, Cataviña, Baja California, Julia T. Sankey, Thomas R. Van Devender, and William H. Clark, 46:1–7
Late Pleistocene peccary from northwestern New Mexico, Spencer G. Lucas and Richard A. Smartt, 40:293–296
Late Tertiary bats (Mammalia, Chiroptera) from the southwestern United States, Nicholas J. Czaplewski, 38:111–118
Late-Pleistocene occurrence of ermine (*Mustela erminea*) in southeastern New Mexico, a, Arthur H. Harris, 38:279–280
Lates niloticus, 38:370
Lathraea clandestina, 45:4
Lathridiidae, 45:464
Lathrop, Earl W., see Baker, William S., —
Lathyrus, 38:291
leucanthus, 43:214
Latitudinal differences in sex ratios among nonbreeding western sandpipers in Puerto Rico and Ecuador, Brian A. Harrington and Ben Haase, 39:188–189
Latrodectus, 45:462
Laundré, John W., see López-González, Carlos A., —
Laurencia poiteaui, 41:419
Lauver, Chris L., Kelly Kindscher, Don Faber-Langendoen, and Rick

Schneider, A classification of the natural vegetation of Kansas. 44: 421–443
Laverde, M. J., see Olvera, O., —
Lavinia exilicauda, 38:221
Lazcano, David, see Rodriguez, Maria Luisa, y —
Lázcano-Barrero, Marco A., First record of *Bolitoglossa mulleri* (Caudata: Plethodontidae) from Mexico. 37:315–316
Leal Ríos, Fernando, see Rojas Agil, Mara. —
Leavenworthia, 42:391
Lebia lecontei, 37:106, 37:111
Levane
bulla, 45:368
clusterocerca, 45:368
elsa, 45:367, 45:368, 45:370–372
hamata, 45:368
inermis, 45:368
ludwigi, 45:367, 45:368, 45:370–372
luna, 45:368, 45:372
lunaris, 45:368
nana, 45:368, 45:370, 45:371
pyriformis, 45:367, 45:368
quadridentata, 45:367, 45:368
stokesi, 45:368, 45:370, 45:371
tenuiseta, 45:368
unguitata, 45:368, 45:370–372
Lecanidae, 45:367, 45:368, 45:372
Lechner, Katherine A., and David O. Ribble, Behavioral interactions between red imported fire ants (*Solenopsis invicta*) and three rodent species of South Texas. 41:123–128
Lechner, Matthew, see Zale, Alexander V., —
Lectotype designation for *Buteo jamaicensis suttoni*, Robert W. Dickerman, 41:198
Ledbetter, Wendy J., see Singhurst, Jason R., —
Lee, Raymond M., see Krausman, Paul R., —
Lee, Thomas, E., Jr., and W. Sue Fairbanks, The genetics of a founder event. 43:415–418
Leeds, Gene, see Harp, George L., —
Leersia, 44:432
oryzoides, 44:429, 45:417, 45:418
Leguminosae, 40:30, 41:169, 41:319, 41:435, 41:436, 42:119, 43:42, 46:6, 46:240
Lei, Simon A., Soil properties of the Kelso Sand Dunes in the Mojave Desert, 43:47–52
Leibfried, William C., see Valdez, Richard A., and —
Leija-Tristan, Antonio, see Rodriguez-Almaraz, Gabino A., —
Leincephalus, 38:341
Leiobunum, 42:499
depressum, 38:239
townsendi, 38:236, 38:237
Leiopelma hamiltoni, 46:110
Lemaireocereus thurberi, 39:178
Lemaireocereus thurberi, 37:282
Lemniscus curtatus, 43:359
Lemna
minor, 44:440, 45:405, 45:416–419
valdiviana, 45:418
Lemos-Espinal, Julio A., Geoffrey R. Smith, and Royce E. Ballinger, Reproduction in Gadow's spiny lizard, *Sceloporus gadovae* (Phrynosomatidae), from arid tropical Mexico, 44:57–63
Lemos-Espinal, Julio A., Hobart M. Smith, Royce E. Ballinger, Geoffrey R. Smith, and David Chiszar, A contribution to the superspecies concept of the lizard *Sceloporus undulatus*: *S. u. belli*, a species. 43:20–24
Lemos-Espinal, Julio A., Royce E. Ballinger, Susy Sanoja Sarabia, and Geoffrey R. Smith, Thermal ecology of the lizard *Sceloporus mucronatus mucronatus* in Sierra del Ajusco, Mexico, 42:344–347
Lemos-Espinal, Julio A., see Smith, Geoffrey R., —
Lemos-Espinal, Julio A., see Smith, Hobart M., —
Lentsch, Leo D., see Gutermuth, F. Brandt, —
Leon, Stuart C., see Zale, Alexander V., —
León-Galván, Miguel Angel, see Ibáñez, Carlos, —
Leon-Paniagua, Livia, see Monterrubio, Tiberio, —
León-Règagnon, Virginia, see Alcaraz, Guillermina, —
Leopardus
pardalis, 40:156, 43:104, 43:273–279
pardallis, 44:202
Lepadella
apsida, 45:368, 45:370, 45:372
ovalis, 45:367, 45:368
patella, 45:367, 45:368
rhomboides, 45:368
triba, 45:368, 45:370, 45:372
triptera, 45:368
Lepidium
densiflorum, 40:137
nitidum, 40:400
Lepidocaryum tenuis, 45:427
Lepidomeda vittata, 38:157–159
Lepidophyma
pajapanensis, 40:122
sylvaticum, 40:122
Lepidostoma, 44:24
apornum, 42:498, 42:499
cascadense, 39:252
ormeum, 39:252
pluviale, 39:252
Lepidostomatidae, 39:252, 42:498, 44: 24
Lepidum virginicum, 44:12
Lepismatidae, 45:463
Lepisosteidae, 40:316, 40:427–428, 41: 375, 42:282, 42:287
Lepisosteus, 40:427–428
oculatus, 37:262–264, 41:375–377, 45: 278, 46:155
osseus, 37:183, 37:186, 37:262–264, 41:301, 41:302, 41:375, 42:268, 42: 269, 42:274, 42:282, 45:278, 46:155
platostomus, 42:282, 45:278
spatula, 41:375–377
Lepitocnemeplatio sericea, 45:309
Lepomis, 37:145, 37:146, 37:358, 38:401, 41:76, 41:158, 43:14, 46:215, 46: 218
auritus, 37:180–184, 37:262–265, 42: 266, 42:268, 46:217
cyanellus, 37:140, 37:142, 37:143, 37: 180–184, 37:262–264, 39:228, 39: 390, 41:155–160, 41:302, 41:375–377, 42:112, 42:114, 42:117, 42: 283, 44:218, 44:220, 44:298, 44: 524, 45:24–29, 45:271, 45:277, 45: 279, 45:280, 45:285, 46:158, 46: 159, 46:162, 46:303, 46:313, 46:316
gulosis, 41:75
gulosus, 37:163, 37:262–264, 45:279
humilis, 37:142, 38:12, 41:301, 41:302, 41:304, 41:312, 42:283, 42:286, 45: 279
macrochirus, 37:140, 37:142, 37:143, 37:180–184, 37:262–266, 38:12, 39: 226, 39:233, 41:75, 41:301, 41:302, 41:304, 41:375, 42:268, 42:283, 43: 340, 44:222, 45:279, 45:280, 45: 285, 46:314, 46:316
marginatus, 43:338
megalotis, 37:142, 37:180–184, 37: 262–265, 39:228, 41:301, 41:302, 42:268, 42:270–272, 42:275, 43: 340, 45:279, 45:280, 46:217
microlophus, 37:142, 37:262–264, 45: 277, 45:279, 45:285
Leptestheria complexmanus, 39:206
Leptestheriidae, 39:206
Lepthyphantes, 42:498, 42:499
Leptocaris stromatolicolus, 43:259
Leptoceridae, 38:19, 38:21, 38:22
Leptochloa, 44:9–11, 44:13
dubia, 41:184, 43:165, 43:166, 44:6, 44:8
fascicularis, 38:166, 38:167, 42:318, 44:438, 45:388, 45:389, 45:415, 45: 418
Leptocottus armatus, 38:220, 38:221
Leptodactylus
melanonotus, 41:329, 41:330
poecilochilus, 44:480
Leptodea, 43:329
fragilis, 41:326, 41:327, 42:334
leptodon, 41:326, 41:327

Leptodeira
annulata, 39:174
septentrionalis, 39:174, 40:122
splendida, 39:173
Leptodiaptomus, 43:260
assiniboiensis, 43:258, 43:261
connexus, 43:258, 43:261
cuauhtemoci, 43:258, 43:261
mexicanus, 43:258, 43:261
novamexicanus, 43:258
siciloides, 43:258, 43:261
Leptodictyum
humile, 45:230
trichopodium, 45:230
Leptodiridae, 37:105, 37:106, 37:111, 37:114
Leptodora kindti, 43:95
Leptogenys, 44:459
elongata, 37:431, 37:432, 45:119, 46:397, 46:399
Leptohyphes, 38:268
Leptoloma cognatum, 42:443, 43:196, 45:105
Leptonycteris, 39:175–179, 41:261, 41:266, 41:268
curasoae, 39:175–179, 41:258, 41:262, 41:265, 41:267, 46:262, 46:263, 46:269
curasoe, 44:233
nivalis, 39:175–179
sanborni, 39:175, 41:258
yerbabuenae, 41:258
Leptophis diplotropis, 39:173
Leptophlebia
cupida, 38:262, 38:263, 39:60
gravastella, 38:263
nebulosa, 38:263
pallipes, 38:263
Leptophlebiidae, 37:168, 37:169, 37:170, 37:171, 37:173, 38:262, 39:61, 39:251, 41:70–72, 42:151
Leptopogon amaurocephalus, 43:231
Leptopsylla segnis, 46:95
Leptopsyllidae, 46:95
Leptorhynchoides thecatus, 44:523, 44:524
Leptospira, 40:415
Leptotes marina, 39:142, 44:378
Leptothorax, 44:458, 44:459
andrei, 44:281
pergandei, 37:431, 37:432, 45:465
Leptotila cassinii, 43:231
Leptotyphlopidae, 43:11
Leptotyphlops
dulcis, 43:11, 43:437–440, 43:443, 43:445
humilis, 43:437–440
maximus, 39:172
Leptotyphlops dulcis, 39:174
Lepus, 38:164, 45:335
alleni, 37:56, 41:93, 41:95
americana, 37:56
americanus, 37:358, 40:160, 43:144, 43:345
californicus, 37:56, 37:57, 37:61, 37:62, 37:280–286, 37:358, 38:198, 38:309–315, 39:91, 39:209, 39:287, 40:160, 40:288, 40:344, 41:48, 41:93, 41:95, 41:130, 41:133, 41:186, 41:187, 45:206, 45:473
callotis, 41:93–95
europaeus, 44:190
flavigularis, 41:93
insularis, 41:93, 41:186–189, 41:459
townsendi, 37:56
townsendii, 37:358
Lernaea, 39:229, 39:230
Lerodea eufala, 39:142
Leslie, David M., Jr., G. Keith Wood, and Tracy S. Carter, Productivity of endangered least terns (*Sterna antillarum athalassos*) below a hydropower and flood-control facility on the Arkansas River, 45:483–489
Leslie, David M., Jr., see Barko, Valerie A., —
Leslie, David M., Jr., see Boren, Jon C., —
Leslie, David M., Jr., see Clark, Brenda S., —
Leslie, David M., Jr., see Schweitzer, Sara H., and —
Leslie, David M., Jr., see Wethington, Traci A., —
Lespedeza
cuneata, 45:388, 45:418
procumbens, 45:401
sericea, 45:420
stipulacea, 45:419
Lesquerella
argyraea, 45:91–93
fendleri, 38:225
gordoni, 38:201, 38:208
gordonii, 45:411, 45:413, 45:417
ovalifolia, 45:413, 45:417
recurvata, 45:103
Lestidae, 37:170
Leucaena pulverulenta, 43:276
Leuciscus pulchella, 39:225
Leucohya, 41:145
Leucophyllum, 45:339
frutescens, 37:275, 39:73, 42:183, 43:42–44, 43:196, 43:200, 44:535, 46:401
minus, 41:425, 41:427
Leucophylum frutescens, 43:276, 43:277
Leucosporа multifida, 45:417
Leucotrichia, 44:24
Leucrocuta hebe, 39:60
Leuctridae, 39:251
Leuromychus, 38:239
Levesque, Paul D., see Wilson, Barry C., and —
Levine, L., see Olvera, O., —
Levinseniella, 40:326
Leydigia
acanthocercoides, 40:323
quadrangularis, 40:323, 40:324
Leymus cinereus, 46:184
Li, Yucheng, see Gold, John R., —
Liang, Fang Qing, see Johnson, Ronald L., —
Liasis childreni, 37:426
Liatris, 42:387, 44:433
cylindracea, 37:369
punctata, 44:435, 44:442, 45:413
pycnostachya, 37:368, 37:369, 44:435
Libellula saturata, 41:293–298
Libellulidae, 37:170, 39:371, 44:25
Licania platypus, 37:427
Lichenomima, 39:83
cervantesi, 39:86–88
elongata, 39:88
intermedia, 39:88
Lienesch, Philip W., see Gido, Keith B., —
Lienesch, Philip W., see Taylor, Christopher M., and —
Lienesch, Philip W., William I. Lutterschmidt, and Jacob F. Schaefer, Seasonal and long-term changes in the fish assemblage of a small stream isolated by a reservoir, 45:274–288
Life history and foods of *Gambusia affinis* in two waterways of southwestern Louisiana, Gwendolyn L. Daniels and James D. Felley, 37:157–165
Life history and habitat affinities of meadow jumping mice (*Zapus hudsonius*) in the Middle Rio Grande Valley of New Mexico, Phillip J. Zwank, Sonia R. Najera, and Manual Cardenas, 42:318–322
Life history of *Ancistrocactus tobuschii* (Cactaceae) in Kinney County, Texas, notes on, Mark W. Lockwood, 40:428–430
Life history of the sailfin molly (*Poecilia latipinna*) in two degraded waterways of southwestern Louisiana, James D. Felley and Gwendolyn L. Daniels, 37:16–21
Life history parameters in mice exposed to a prolonged drought, Martin L. Morton, Michael L. Morrison, Linnea S. Hall, and Maria E. Pereyra, 40:18–28
Lightfoot, David C., see Brantley, Sandra L., —
Ligumia subrostrata, 41:327, 42:334
Ligyrus gibbosus, 46:209
Liknes, Eric T., see Swanson, David L., —
Liliaceae, 41:207
Lim, Burton K., see Engstrom, Mark D., —
Limacidae, 38:295
Limenitis archippus, 39:142
Limnephilidae, 37:171, 38:21, 38:22, 39:252
Limnocoris, 41:7

admontandoni, 41:18
insularis, 41:19
lutzi, 41:1, 41:2, 41:4, 41:8, 41:17, 41:18, 41:22–24
pygmaeus, 41:17
signoreti, 41:17
Limnocythere sanctipatrici, 41:453
Limnodea arkansana, 44:11, 44:12, 44:14, 45:103
Limnodrilus, 44:516
hoffmeisteri, 44:515, 44:516
profundicola, 44:515, 44:516
udekemianus, 44:515, 44:516
Limnodromus, 38:62, 38:63
scolopaceus, 37:87, 37:388, 37:397
Limonia, 42:499, 44:24
Limonio californici, 40:391
Limonium
angustebracteatum, 40:397
caesium, 40:397
californicum, 40:399, 40:401
carolinianum, 45:431, 45:434, 45:435, 45:438, 45:439, 45:442
cossonianum, 40:397
eugeniae, 40:396
ferulaceum, 40:396
vulgare, 40:396
Limosa
fedoa, 38:62, 40:98
haemastica, 37:87
Lindera benzoin, 44:441, 45:401–404, 45:408
Lindheimera texana, 40:268–272
Lindia
torulosa, 45:369
truncata, 45:369
Lindiidae, 45:369
Lindsey, James R., see Dronen, Norman O., —
Linnaea borealis, 43:212
Linum, 42:410, 44:12, 44:14
aristatum, 38:227
rigidum, 42:183
sulcatum, 37:369
Linyphiidae, 45:462
Linz, George M., C. Edward Knittle, and Richard E. Johnson, Home range of breeding common ravens in coastal southern California, 37:199–202
Liolaemus, 37:353, 39:319
Liomys
irroratus, 37:382, 37:383, 44:481
pictus, 44:481
salvini, 38:81, 39:282, 44:111
salvinii, 44:480
Liposarcus, 46:100
Liquidambar
macrophylla, 40:122
styraciflua, 39:380, 42:104, 44:242, 45:239, 45:400, 45:403–405, 45:424, 45:425, 45:427
Liris
muspa, 43:250
partitus, 43:250
Lish, James W., and Lurinda J. Burge, Population characteristics of red-tailed hawks wintering on tallgrass prairies in Oklahoma, 40:174–179
List, Rurik, Gerardo Ceballos, and Jesús Pacheco, Status of the North American porcupine (*Erethizon dorsatum*) in Mexico, 44:400–404
Liston, Aaron, see Mistretta, Orlando, and —
Lithobiidae, 45:463, 46:209
Lithobius harrietae, 46:209
Lithospermum, 46:240
incisa, 45:413
multiflorum, 38:226
tenellum, 45:414
Litter variation in the Atlantic guitarfish (Rhinobatidae: *Rhinobatos lentiginosus*) with comments on distribution in the Gulf of Mexico, Rebecca A. Hensley, Michael J. McCoid, and Carl A. Luer, 43:501–504
Little pocket mouse (Heteromyidae: *Perognathus longimembris*) on the Baja California Peninsula, noteworthy records of the, Sergio Ticul Alvarez-Castañeda, Evelyn Rios, and Anahid Gutierrez-Ramos, 46:243–245
Littlefield, Carroll D., Waterfowl mortality from castor bean poisoning in northwestern Texas, 41:445–446
Livestock use on key plant species and rodent populations within selected *Oryzopsis hymenoides/Hilaria jamesii* communities of Glen Canyon National Recreation Area, effects of differential, Brian S. Bich, Jack L. Butler, and Cheryl A. Schmidt, 40:281–287
Llorente Bousquets, Jorge, see Morrone, Juan J., —
Loasaceae, 46:240
Lobelia cardinalis, 45:416
Lobometapon fusiformis, 46:209
Lobpries, David, see Schneider, Jon P., —
Location, structure, and contents of burrows of *Spermophilus lateralis* and *Tamias minimus*, two ground-dwelling sciurids, Keeley J. Bihr and Rosemary J. Smith, 43:352–362
Lochmiller, Robert L., see Boren, Jon C., —
Lochmiller, Robert L., see Boyd, Chad S., —
Lochmiller, Robert L., see Sinclair, John A., —
Lockwood, Mark W., Notes on life history of *Ancistrocactus tobuschii* (Cactaceae) in Kinney County, Texas, 40:428–430
Lohr, Samuel C., and Kurt D. Fausch, Effects of green sunfish (*Lepomis cyanellus*) predation on survival and habitat use of plains killifish (*Fundulus zebrinus*), 41:155–160
Loik, Michael E., see Huxman, Travis E., and —
Lolium multiflorum, 40:394, 40:403, 45:112
Lollar, Amanda, see Clark, Donald R., Jr., —
Lollar, Amanda, see French, Barbara, and —
Lomatium foeniculaceum, 45:413
Lonard, Robert I., Frank W. Judd, James H. Everitt, David E. Escobar, Mario A. Alaniz, Isabel Cavazos, III, and M. R. Davis, Vegetative change on South Padre Island, Texas, over twenty years and evaluation of multispectral videography in determining vegetative cover and species identity, 44:261–271
Long, Charles A., and Robert S. Hoffmann, *Sorex preblei* from the Black Canyon, first record for Colorado, 37:318–319
Long-nosed bats (*Leptonycteris*) in New Mexico, observations on, Reginald A. Hoyt, J. Scott Altenbach, and David J. Hafner, 39:175–179
Long-range movement in the California pocket mouse (*Chaetodipus californicus*), an occurrence of, Linda K. Spiegel, Michael F. Small, Judith Tom, and Tony C. Dao, 40:225–226
Long-term grazing influences on Chihuahuan Desert rangeland, Jerry L. Holechek, Ackim Tembo, Alipayou Daniel, Michael J. Fusco, and Manuel Cardenas, 39:342–349
Longevity of Illinois bundle flower (*Desmanthus illinoensis*) seeds, Ralph W. Kelting, 39:212–213
Longistriata neotoma, 38:146–149
Longitudinal distribution and assemblages of fishes of Byrd's Mill Creek, a southern Oklahoma Arbuckle Mountain stream, Bruce G. Stewart, Jeremy G. Knight, and Robert C. Cashner, 37:138–147
Loomis, Lynn E., see Green, M. Clay, —
López González, Carlos A., see Brown, David E., and —
López-Forment, William, see Sánchez, Oscar, —
Lopez-Forment, William, see Villa-Cornejo, Beatriz, —
López-González, Carlos A., Alberto González-Romero, and John W.

Laundré, Range extension of the bobcat (*Lynx rufus*) in Jalisco, Mexico, 43:103–105
López-Ortega, Gerardo, see López-Wilchis, Ricardo, —
López-Wilchis, Ricardo, Gerardo López-Ortega, and Robert D. Owen, Noteworthy record of the western small-footed myotis (Mammalia: Chiroptera: *Myotis ciliolabrum*), 39: 211–212
Lopez-Wilchis, Ricardo, see Ibáñez, Carlos, —
López-Wilchis, Ricardo, see Sánchez-Hernández, Cornelio, —
Lophocampa argentata, 40:232, 40:233
Lophocereus schottii, 37:282, 37:283, 41: 258, 42:241, 46:4, 46:273
Lophocharis salpina, 45:368
Lophodytes cucullatus, 37:400
Lophogobius cyprinoides, 44:169
Lophopterygella, 39:86
Lophortyx californicus, 39:92
Lophosoria quadripinnata, 40:122
Lorenzo, Consuelo, see Cervantes, Fernando A., —
Loricariidae, 46:98–104
Loring, S. J., see MacKay, W. P., —
Lotus rigidus, 46:5
Loughry, W. J., see McDonough, Colleen M., —
Lowe, Margot, Diet of Stephens' kangaroo rat, *Dipodomys stephensi*, 42: 358–361
Loxia curvirostra, 40:97
Loxocemus bicolor, 39:172
Loxosceles, 42:498, 42:499
Loxstege cerealvoles, 37:247, 37:248
Lozano-Vilano, Lourdes, see Echelle, Anthony A., —
Lucania parva, 37:178, 37:180–185, 44: 168
Lucas, Spencer G., and Gary S. Morgan, The American mastodont (*Mammut americanum*) in New Mexico, 42:312–317
Lucas, Spencer G., and Richard A. Smartt, Late Pleistocene peccary from northwestern New Mexico, 40:293–296
Lucas, Spencer G., see Knight, Paul J., —
Ludwigia
palustris, 45:415, 45:418
repens, 37:196
Luer, Carl A., see Hensley, Rebecca A., —
Lumbriculidae, 41:62, 41:63, 44:515, 44:516
Lundquist, Carolyn J., see Agrawal, Anurag A. —
Lupinus, 43:358, 45:509, 46:184
densiflorus, 41:131
Lutjanidae, 44:168
Lutjanus
apodus, 44:168
griseus, 44:168
Lutra canadensis, 37:61
Lutterschmidt, William I., see Liennesch, Philip W., —
Luxilus, 37:220
cardinalis, 38:302
chrysocephalus, 38:302–303
Luzula parviflora, 43:214
Lycaenidae, 44:378
Lycalopex
culpaeus, 44:328
griseus, 44:328
Lycium, 37:253, 38:346, 44:195
andersonii, 38:208, 43:408
berlandieri, 41:427, 43:276, 43:277
californicum, 40:400
carolinianum, 45:431, 45:434, 45:435, 45:439, 45:442
pallidum, 43:408
Lycopodium, 46:6
Lycosa
lugubris, 37:132
rabida, 37:136
santrita, 37:132, 37:136
Lycosidae, 37:132–137, 45:462, 45:467, 46:209
Lycurus phleoides, 37:49–51, 37:73, 39: 22, 42:189, 46:285
Lydeard, Charles, and Mark C. Belk, Management of indigenous fish species impacted by introduced mosquitofish: an experimental approach, 38:370–373
Lygaeidae, 45:15–23, 45:463
Lygeidae, 46:241
Lygodesmia juncea, 44:436
Lygus, 41:142
Lymnaeidae, 38:293, 38:295
Lymnocythere staplini, 41:454
Lyngbya, 37:339–342
Lynx rufus, 37:325, 40:154, 42:31, 43: 103–105, 43:469–475, 44:97, 45: 473, 45:474, 45:543–546, 46:346
Lyonia ligustrina, 45:405
Lyons, John, Oscar J. Polaco, and Philip A. Cochran, Morphological variation among the Mexican lampreys (Petromyzontidae: *Lampetra*: subgenus *Tetrapleurodon*), 41:365–374
Lyons, John, Philip A. Cochran, Oscar J. Polaco, and Evodio Merino-Nambo, Distribution and abundance of the Mexican lampreys (Petromyzontidae: *Lampetra*: subgenus *Tetrapleurodon*), 39:105–113
Lysaon pictus, 38:66
Lysiloma
divaricata, 43:34, 45:304
latisiliqua, 40:30, 45:79
latisiliquum, 45:340
tergemina, 44:58
Lythraceae, 45:441
Lythrum alatum, 40:137, 45:435, 45:441
Lythrurus, 37:219
snelsoni, 40:373–378
umbratilis, 37:142, 37:143, 40:373, 41: 301, 41:302, 41:304, 43:340

Mabee, William R., A *Brachionus* (Rotifera: Monogononta: Brachionidae) new to North America, 46:213–216
Mabee, William R., A note on the occurrence of *Bosmina* (*Eubosmina*) *coregoni* (Crustacea, Cladocera) in Missouri: a new record and range extension, 43:95–96
Mabuya
brachipoda, 39:172
unimarginata, 44:480
Macdonaldius
andersoni, 42:330
colimensis, 42:330, 42:331
oschei, 42:330, 42:331
seetae, 42:329–332
Macdonaldius seetae (Nematoda: Spirurida: Filaroidea) in a Trans-Pecos rat snake (*Elaphe subocularis*), Todd G. Smith, 42:329–332
Macdunnoa, 38:252
nipawinia, 38:261
persimplex, 38:261, 38:269
Machaeranthera
gypsophila, 42:224
phyllocephala, 45:431, 45:434, 45:435, 45:439, 45:441
tanacetifolia, 43:450, 45:414
Machaerocereus gummosus, 37:281–284
Macharocereus gummosus, 42:108
MacKay, W. P., S. J. Loring, J. C. Zak, S. I. Silva, F. M. Fisher, and W. G. Whitford, Factors affecting loss in mass of creosotebush leaf-litter on the soil surface in the northern Chihuahuan Desert, 39:78–82
MacKay, William P., A new army ant from southern Texas (Hymenoptera: Formicidae), 43:333–335
MacKay, William P., and Robert S. Anderson, New distributional records for the ant genus *Smithistruma* (Hymenoptera: Formicidae) in the southern United States, 38: 388–389
MacKay, William P., see Cokendolpher, James C., —
MacKay, William P., see Valdez Sanchez, Luz Isela y —
Macke, Lashea M., see Nelson, Allan D., —
Maclura pomifera, 45:403
Macouzet, Tania M., and Patricia Escalante-Pliego, New records of birds from Cozumel Island, Mexico, 45:79–81
Macracanthorhynchus

hirudinaceus, 42:234
ingens, 42:232–234
Macrhybopsis, 42:281
aestivalis, 42:113, 42:114, 42:117, 42:282
gelida, 42:282, 42:284
storeriana, 42:282, 45:278
Macrocyclops
albidus, 43:258, 43:261
fuscus, 43:258
Macroderoididae, 45:69–71
Macroinvertebrate drift in the tailwater of a regulated river below Glen Canyon Dam, Arizona, Ted McKinney, Andrew D. Avers, and Roland S. Rogers, 44:205–210
Macromischa, 44:458
Macronyssidae, 37:426
Macrophyllum macrophyllum, 38:300
Macrothricidae, 40:323
Macrothrix
hirsuticornis, 40:323, 40:324
laticornis, 40:323, 40:324
rosea, 40:323
Macrotrachela
crucicornis, 40:256
longistyla, 40:256
sonorensis, 40:255–258
Macrotus waterhousii, 37:429, 40:33
MacWhorter, William, see Everitt, James H., —
Maehr, D. S., E. C. Hellgren, R. L. Bingham, and D. L. Doan-Crider, Body mass of American black bears from Florida and Mexico, 46:129–133
Magicicada, 39:31
tredecassini, 39:94
Magnolia
acuminata, 45:400
dealbata, 45:239
grandiflora, 42:504
schiedeana, 45:239
virginiana, 45:438
Maher, Christine R., Group stability, activity budgets, and movements of pronghorn females, 42:25–32
Mahonia
fremontii, 38:91–99
japonica, 38:94
repens, 38:96, 38:97, 43:209
trifoliolata, 45:31
Malaclemys terrapin, 46:233
Malacoptila panamensis, 43:231, 43:232
Malacothamnus fasiculatus, 45:509
Malaraeus
sinomus, 46:94, 46:95
telchinus, 46:95
Maldonado, Jesús E., Mauricio Cotera, Eli Geffen, and Robert K. Wayne, Relationships of the endangered Mexican kit fox (*Vulpes macrotis zinseri*) to North American arid-land foxes based on mitochondrial DNA sequence data, 42:460–470
Male mate searching and female availability in the dragonfly, *Libellula saturata*: relationships in time and space, S. J. DeBano, 41:293–298
Male reproductive cycle of the knob-scaled lizard, *Xenosaurus grandis*, Geoffrey R. Smith, Royce E. Ballinger, and Julio A. Lemos-Espinal, 45:356–357
Malenka coloradensis, 39:251
Mallard × American wigeon hybrid on the southern High Plains of Texas, Alan M. Fedynich and Olin E. Rhodes, Jr., 38:179–181
Mallos, 45:462
gregalis, 39:391
Malphigia glabra, 43:42, 43:276, 43:277
Malpighiaceae, 43:42, 43:276, 46:401, 46:402
Malus, 39:92
domestica, 42:155
Malusa, James, Xylem pressure potentials of single- and double-needled pinyon pines, 37:43–48
Malva, 37:114
Malvaceae, 38:331, 41:436
Malvastrum bicuspidatum, 37:51, 37:52
Mammailaria, 37:282
Mammal predation on darkling beetles (Coleoptera: Tenebrionidae) in pitfall traps, small, Paul Stapp, 42:352–355
Mammalia, 37:420–421, 38:111–118, 39:211–212, 44:410–414
Mammalian species composition, diversity, and succession in Conservation Reserve Program grasslands, Dianne L. Hall and Michael R. Willig, 39:1–10
Mammals from Guatemala, new records of two small, Mark D. Engstrom, Fiona A. Reid, and Burton K. Lim, 38:80–82
Mammals from Mexico, noteworthy records of three, Rodrigo A. Medellín, Guadalupe Cancino Z., Apamar Clemente M., and Ramón O. Guerrero V., 37:427–429
Mammals from Michoacán, México, noteworthy records of, Cornelio Sánchez-Hernández, María de Lourdes Romero-Almaraz, Robert D. Owen, Arturo Núñez-Garduño, and Ricardo López-Wilchis, 44:231–235
Mammals from the late Pleistocene Carrol Creek local fauna, Donley Co., Texas, Stephen Kasper, 37:54–64
Mammals in native and anthropogenic habitats in the Lake Wilson area of north-central Kansas, small, Donald W. Kaufman, Glennis A. Kaufman, and Bryon K. Clark, 45:45–60
Mammals in the Calakmul Biosphere Reserve, Yucatán Peninsula, records of small, Arturo Hernández-Huerta, Vinicio J. Sosa, J. Marcelo Aranda, and Joaquín Bello, 45:340–344
Mammals new to the fauna of El Salvador, two small, Mark D. Engstrom, Burton K. Lim, and Fiona A. Reid, 39:281–283
Mammals of Jujuy Province, Argentina, contributions to the knowledge of the, M. Mónica Díaz and Rubén M. Barquez, 44:324–333
Mammilaria
heyderi, 42:444
sulcata, 43:197
Mammillaria, 43:27
heyderi, 42:444
microcarpa, 44:142
spinosa, 43:29, 43:39
sulcata, 43:200
vivipara, 45:105
Mammut
americanum, 42:312–317
raki, 42:312
Mammuthus, 42:315
columbi, 37:54, 37:60–62, 42:312
imperator, 41:207
meridionalis, 41:207
Manacus candei, 43:230–232
Management of indigenous fish species impacted by introduced mosquitofish: an experimental approach, Charles Lydeard and Mark C. Belk, 38:370–373
Mandilkara bidentata, 37:417
Manduca
quinquemaculata, 42:89
sexta, 42:89, 44:87, 44:88
Mandujano, Salvador, Variation in herd size of collared peccaries in a Mexican tropical forest, 44:199–204
Mangifera indica, 38:24, 38:27, 38:28, 38:81
Manihot, 46:403
Manilkara, 39:281
bidentata, 43:74
zapota, 38:403, 45:79, 45:340
Manley, Donald G., and Wade C. Sherbrooke, Predation on velvet ants (Hymenoptera: Mutillidae) by Texas horned lizards (*Phrynosoma cornutum*), 46:221–222
Mannan, R. William, see Boal, Clint W., and —
Mannia californica, 45:231
Marattiaceae, 43:74
Marcgravia rectiflora, 43:72, 43:74
Marcgraviaceae, 43:74
Marchantia polymorpha, 45:231

Mares, Michael A., Janet K. Braun, and Rob Channell, Ecological observations on the octodontid rodent, *Tympanoctomys barrerae*, in Argentina, 42:488–493
Margarodidae, 46:241
Margarops fuscatus, 43:72, 46:116
Marilia flexuosa, 38:22
Marisa cornuarietis, 37:194–196, 44:91
Marking otoliths in razorback sucker embryos and larvae with fluorescent chemicals, Robert T. Muth and Steven M. Meismer, 40:241–244
Marking technique: positional hair clipping, a new individual, Whitney C. Johnson, 46:126–129
Marmosa
mexicana, 38:81, 38:299, 39:282
robinsoni, 38:80, 38:81, 39:281–283
Marmota
caligata, 39:359
flaviventris, 42:315, 43:359, 44:189
monax, 43:345
Marsh, Paul C., see Horn, Michael J., —
Marsh, Paul, see Mueller, Gordon, —
Marsh-edge habitat variables on feeding success by juvenile bay whiff, *Citharichthys spilopterus* (Teleostei: Bothidae), effects of, Conrad Toepfer and John W. Fleeger, 40: 297–300
Marsh-Matthews, Edie, see Gido, Keith B., —
Marsilea vestita, 45:415, 45:418
Martes americana, 40:153
Martijena, Nora E., and Stephen H. Bullock, Geographic variation in seed mass in the chaparral shrub Heteromeles arbutifolia (Rosaceae), 42:119–121
Martin, R. Trent, see Nico, Leo G., and —
Martin, Thomas E., see Dabbert, C. Brad, and —
Martinez, Patrick J., Brett M. Johnson, and Joshua D. Hobgood, Stable isotope signatures of native and nonnative fishes in upper Colorado River backwaters and ponds, 46:311–322
Martinez, Patrick J., see Trammell, Melissa A., —
Martínez-Delgado, Ezequiel, Eric Mellink, Juan Rogelio Aguirre-Rivera, and Edmundo García-Moya, Removal of piñon seeds by birds and rodents in San Luis Potosí, México, 41:270–274
Martínez-Meyer, Enrique, Miguel Martínez-Morales, and Javier Sosa-Escalante, First record of the kinkajou, *Potos flavus* (Carnivora: Procyonidae), from Isla Cozumel, Quintana Roo, Mexico, 43:101–102
Martínez-Morales, Miguel, see Martínez-Meyer, Enrique, —
Martyana martyi, 46:204
Mascagnia parvifolia, 43:39
Mascareñas, Adrian Quijada, see Campoy-Favela, Jose, and —
Maslin, Paul E., see Grant, Gerold C., and —
Massey, Brian N., Floyd W. Weckerly, Charles E. Vaughn, and Dale R. McCullough, Correlations between fecal nitrogen and diet composition in free-ranging black-tailed deer, 39:165–170
Masslich, William J., see Valdez, Richard A., and —
Mastichodendron gaumeri, 45:79
Masticophis
bilineatus, 40:188, 43:412–415, 45: 173, 46:56, 46:388
flagellum, 37:313, 43:158, 43:443, 43: 445
lateralis, 43:412, 43:414
mentovarius, 39:173
taeniatus, 43:412–414, 43:443, 43:445, 44:532, 46:387
Mastigodiaptomus
albuquerquensis, 43:256, 43:258, 43: 260, 43:261
montezumae, 43:258, 43:261
nesus, 43:258, 43:261
texensis, 43:258
Mastodon
americanus, 42:312
raki, 42:312
Mastogloia
braunii, 46:204
danseii, 46:204
pumila, 46:204
smithii, 37:151
Mastrup, Sonke A., see Gorenzel, W. Paul, —
Mate-guarding, mating success and body size in the tropical millipede *Nyssodesmus python* (Peters) (Polydesmida: Platyrhacidae), Stephen C. Adolph and Monica A. Geber, 40:56–61
Matelea parvifolia, 46:402
Mather, Charles M., see Vaughn, Caryn C., —
Mathis, Alicia, Krista Deckard, and Connie Duer, Laboratory evidence for territorial behavior by the southern red-backed salamander, *Plethodon serratus*: influence of residency status and pheromonal advertisement, 43:1–5
Matlack, Raymond S., Philip S. Gipson, and Donald W. Kaufman, The swift fox in rangeland and cropland in western Kansas: relative abundance, mortality, and body size, 45:221–225
Matter, William J., see Dudley, Robert K., and —
Matter, William J., see Ivanyi, Craig, S., —
Matthews, William J., Geographic variation in nuptial colors of red shiner (*Cyprinella lutrensis*; Cyprinidae) within the United States, 40:5–10
Matthews, William J., see Gido, Keith B., —
Maughan, O. Eugene, see Barrett, Paul J., and —
Maughan, O. Eugene, see Oakey, David D., —
Maughan, O. Eugene, see Zale, Alexander V., —
Maurandya
antirrhiniflora, 46:402, 46:403
wislizenii, 38:227
Mayatrichia ayama, 38:21
Mayfield, Rick L., Dirk Van Vuren, and Michael L. Johnson, Demography of an insular endemic rodent, *Peromyscus maniculatus santacruzae*, on Santa Cruz Island, 45:508–513
Maytenus texana, 43:276, 43:277
Mazaika, Rosemary, Paul R. Krausman, and Richard C. Etchberger, Forage availability for mountain sheep in Pusch Ridge Wilderness, Arizona, 37:372–378
McAllister, Chris T., and Stanley E. Trauth, Food habits of paedomorphic mole salamanders, *Ambystoma talpoideum* (Caudata: Ambystomatidae), from northeastern Arkansas, 41:62–64
McAllister, Chris T., see Trauth, Stanley E., —
McAllister, Chris T., Stanley E. Trauth, and Betty G. Cochran, Endoparasites of the ringed salamander, *Ambystoma annulatum* (Caudata: Ambystomatidae), in Arkansas, 40: 327–330
McAllister, Chris T., Stanley E. Trauth, and Charles R. Bursey, Parasites of the pickerel frog, *Rana palustris* (Anura: Ranidae), from the southern part of its range, 40:111–116
McCafferty, W. P., Richard S. Durfee, and Boris C. Kondratieff, Colorado mayflies (Ephemeroptera): an annotated inventory, 38:252–274
McCain, Christy M., First evidence of the giant anteater (*Myrmecophaga tridactyla*) in Honduras, 46:252–254
McCarley, Howard, 44:545–546
McCarthy, Timothy J., David L. Anderson, and Gustavo A. Cruz D., Tree

sloths (Mammalia: Xenarthra) in Nicaragua and Honduras, Central America, 44:410–414

McClaran, Mitchel P., and Peter C. Sundt, Population dynamics of the rare orchid, *Spiranthes delitescens*, 37:299–303

McClenaghan, Leroy R., Jr., see Truesdale, Harold D., and —

McClinton, Philip L., see McClinton, Susan F., —

McClinton, Susan F., Philip L. McClinton, and Jim V. Richerson, Food habits of black bears in Big Bend National Park, 37:433–435

McClure, Mark F., Norman S. Smith, and William W. Shaw, Densities of coyotes at the interface of Saguaro National Monument and Tucson, Arizona, 41:83–86

McClure, Mark F., Norman S. Smith, and William W. Shaw, Diets of coyotes near the boundary of Saguaro National Monument and Tucson, Arizona, 40:101–104

McClure, Matthew R., and Ira F. Greenbaum, Allozymic variation and biogeography of snapping shrimp (*Alpheus*) from the Gulf of Mexico and northwestern Atlantic coasts, 44:462–469

McClure, Matthew R., and Ira F. Greenbaum, Biochemical variation in *Alpheus* (Decapoda, Caridea, Alpheidae) from the coast of Texas: evidence for cryptic species, 39:63–66

McCoid, Michael J., see Hensley, Rebecca A., —

McCoy, J. Kelly, and Stanley F. Fox, Is *Barisia rudicollis* (Sauria: Anguidae) arboreal? A morphological analysis, 41:359–364

McCoy, J. Kelly, Stanley F. Fox, and Troy A. Baird, Geographic variation in sexual dimorphism in the collared lizard, *Crotaphytus collaris* (Sauria: Crotaphytidae), 39:328–335

McCranie, James R., and Gunther Köhler, Notes on the type series of *Bufo valliceps* Wiegmann, with the designation of a lectotype, 45:71–74

McCranie, James R., and Larry David Wilson, A new species of salamander of the genus *Nototriton* (Caudata: Plethodontidae) from Montaña de Santa Bárbara, Honduras, 41:111–115

McCranie, James R., and Larry David Wilson, A significant range extension for the montane snake *Rhadinaea lachrymans* (Colubridae), 46:113–114

McCranie, James R., and Larry David Wilson, Taxonomic changes associated with the names *Hyla spinipollex* Schmidt and *Ptychohyla mexazi* Wilson and McCranie (Anura: Hylidae), 38:100–104

McCullough, Dale R., see Massey, Brian N., —

McDaniel, V. Rick, see Tumlison, Renn, —

McDiarmid, Roy W., Systematic status of the San Luis Potosí black-headed snake, *Tantilla deviatrix* Barbour (Colubridae), 37:303–307

McDonough, Colleen M., Suzanne A. McPhee, and W. J. Loughry, Growth rates of juvenile nine-banded armadillos, 43:462–468

McIntyre, Nancy E., Use of *Pogonomyrmex occidentalis* (Hymenoptera: Formicidae) nest-sites by tenebrionid beetles (Coleoptera: Tenebrionidae) for oviposition and thermoregulation in a temperate grassland, 44:379–382

McKinney, Shawn T., see Chace, Jameson F., —

McKinney, Ted, Andrew D. Ayers, and Roland S. Rogers, Macroinvertebrate drift in the tailwater of a regulated river below Glen Canyon Dam, Arizona, 44:205–210

McKinney, Ted, Thornton W. Smith, and Jonathan D. Hanna, Precipitation and desert bighorn sheep in the Mazatzal Mountains, Arizona, 46:345–353

McLean, R. G., see Miller, D. S., —

McLean, Robert G., and Sonya R. Ubico, A first record of the water opossum (*Chironectes minimus*) from Guatemala, 38:402–404

McLean, Robert G., see Kralovec, Mary L., —

McMillan, Brock R., Glennis A. Kaufman, and Donald W. Kaufman, A case of senescence for the white-footed mouse?, 42:236–237

McNeely, David L., The Southwestern Association of Naturalists minutes of the business meeting, Albuquerque, New Mexico, Friday, 10 April 1998, 43:510–514

McNeely, David L., The Southwestern Association of Naturalists minutes of the business meeting, Denton, Texas, Friday, 21 April 2000, 45:552–556

McNeely, David L., The Southwestern Association of Naturalists minutes of the business meeting: Fayetteville, Arkansas, Friday, 11 April 1997, 42:514–518

McNeely, David L., The Southwestern Association of Naturalists minutes of the business meeting, Hays, Kansas, Friday, 20 April 2001, 46:530–533

McNeely, David L., The Southwestern Association of Naturalists minutes of the business meeting, McAllen, Texas, Friday 19 April 1996, 41:477–482

McNeely, David L., The Southwestern Association of Naturalists minutes of the business meeting, Monterrey, Nuevo Leon, Mexico, Thursday, 22 April 1999, 44:553–556

McNeely, David L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Albuquerque, New Mexico, Thursday, 9 April 1998, 43:505–510

McNeely, David L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Denton, Texas, Thursday, 20 April 2000, 45:547–552

McNeely, David L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers: Fayetteville, Arkansas, Thursday, 10 April 1997, 42:505–514

McNeely, David L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Hays, Kansas, Thursday, 19 April 2001, 46:525–530

McNeely, David L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, McAllen, Texas, Thursday, 18 April 1996, 41:470–476

McNeely, David L., The Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Monterrey, Nuevo Leon, Mexico, Wednesday, 21 April 1999, 44:547–552

McPhee, Suzanne A., see McDonough, Colleen M., —

Mead, Jim I., and David G. Mikesic, First fossil record of *Euderma maculatum* (Chiroptera: Vespertilionidae), eastern Grand Canyon, Arizona, 46:380–383

Meadow invasion from high-elevation spruce-fir forest in south-central New Mexico, James M. Dyer and K. Evan Moffett, 44:444–456

Means, D. Bruce, see Karlin, Alvan A., —

Means, Myron L., and James E. John-

son, Movement of threatened Ozark cavefish in Logan Cave National Wildlife Refuge, Arkansas, 40:308–313
Meda fulgida, 39:148–155, 46:307
Medellín, Rodrigo A., Guadalupe Cancino Z., Apamar Clemente M., and Ramón O. Guerrero V., Noteworthy records of three mammals from Mexico, 37:427–429
Medicago, 38:175
lupulina, 40:137
sativa, 37:270, 42:127
truncatula, 41:319
Megabothris
abantis, 46:95
asio, 46:95
Megacyclops latipes, 43:258
Megadontomys cryophilus, 41:96
Megalocypris
gnathostoma, 41:453, 41:454
ingens, 41:452–454
pseudoingens, 41:453, 41:454
Megalodiscus
microphagus, 46:228
temperatus, 45:362–365, 46:228
Megalonaias nervosa, 41:326, 41:327, 42:334
Megalopidae, 44:168
Megalops atlanticus, 44:168
Megarthroglossus
bisetis, 46:95
cavernicolus, 46:95
divisus, 46:95
procus, 46:94, 46:95
wilsoni, 46:95
Megulpsilon, 40:13, 40:16
aporus, 40:11, 40:12, 40:14, 40:15
Mehlhop, Patricia, see Johnson, Kristine, —
Mehlhop, Patricia, see Vaughn, Caryn C., —
Meismer, Steven M., see Muth, Robert T., and —
Melampodium leucanthum, 45:105, 45:406, 45:414
Melanerpes
aurifrons, 40:357
auriforns, 37:388, 41:441–442, 42:226, 45:30–38
carolinus, 41:441, 45:30
erythrocephalus, 45:32
formicivorus, 37:296, 43:170
lewis, 45:35
uropygialis, 37:254, 41:261, 41:442, 45:30
Melanism in white-tailed deer in central Texas, John T. Baccus and John C. Posey, 44:184–192
Melanoides tuberculata, 43:283–286, 44:222
Melanoplus, 41:142
angustipennis, 37:364
bivittatus, 37:364–366, 37:368
confusus, 37:364–366, 37:368
femurrubrum, 37:364
keeleri, 37:363–366, 37:368, 37:370
ponderosus, 37:364–366
sanguinipes, 37:364
Melastomaceae, 43:449
Melastomataceae, 46:403
Meleagaris gallopavo, 46:119
Meleagris gallopavo, 38:66, 43:242–248, 44:97, 45:258–266
Melia azedarach, 40:203
Meliaceae, 43:74, 44:508
Melilotus, 42:127
alba, 45:416
albus, 42:156
officinalis, 45:47
Meliosma alba, 45:424, 45:425, 45:427
Mellink, Eric, see Martínez-Delgado, Ezequiel, —
Meloidae, 46:209
Melon-headed whale (*Peponocephala electra*) from the Gulf of Mexico, first records of the, Gina L. Barron and Thomas A. Jefferson, 38:82–85
Melosira varians, 37:150
Melospiza
georgiana, 42:227
lincolnii, 37:389, 42:140, 42:227, 42:446–453
melodia, 38:63, 42:140, 43:456
Méndez-de la Cruz, Fausto R., Gustavo Casas-Andreu, y Maricela Villagran-Santa Cruz, Variacion anual en la alimentacion y condicion fisica de *Sceloporus mucronatus* (Sauria: Iguanidae) en la Sierra del Ajusco, Distrito Federal, Mexico, 37:349–355
Mendoza Quijano, Fernando, see Walker, James M., —
Mendoza, R., see Aguilera, C., —
Mendoza-Alfaro, Roberto, see Rodriguez-Almaraz, Gabino A., —
Menidia beryllina, 37:16, 37:180–184, 37:262–265, 40:316, 40:319, 40:320, 41:311, 41:312, 45:277, 45:279, 45:280, 45:282, 45:284–286
Menippe, 44:468
Menodora
longiflora, 43:196
spinescens, 46:4, 46:5
Mentzelia, 38:227, 46:240
oligosperma, 44:442, 45:417
Mephitis, 37:325, 45:335
macroura, 37:428
mephitis, 37:61, 37:323, 37:393, 38:352, 39:356, 40:347, 41:352, 45:473, 45:474, 46:119
Mephitus
mephitus, 45:204
Mercya latifolia, 45:229
Mergus
merganser, 41:149, 41:152, 41:444
serrator, 38:61, 41:199–200
Meringis
altipectin, 46:95
arachis, 46:95
bilsingi, 46:95
dipodomys, 46:95
disparilis, 46:95
facilis, 46:95
jamesoni, 46:94, 46:95
nidi, 46:95
parkeri, 46:95
rectus, 46:95
Merino-Nambo, Evodio, see Lyons, John, —
Merluccius productus, 38:220
Mermiria bivittata, 37:363–365, 37:368
Merobruchus major, 38:386, 38:387
Mesembryanthemetum
crystallini, 40:403
crystallino-nodiflori, 40:395, 40:403
nodiflori, 40:394, 40:402
Mesembryanthemum, 40:403
crystalinum, 40:397
crystallinum, 40:394, 40:400, 40:402, 40:403, 41:460
nodiflorum, 40:394, 40:397, 40:400, 40:402, 40:403
Mesocestoides, 40:111, 40:112, 40:114, 40:331–333, 43:477, 45:362–365
lineatus, 40:113
Mesocricetus auratus, 38:341
Mesocyclops
aspericornis, 43:258
chaci, 43:258
edax, 43:96, 43:258
ellipticus, 43:257
longisetus, 43:258
reidae, 43:257, 43:258, 43:261
yutsil, 43:258
Mesodorylaimus, 42:166
Mesogyna hepatica, 43:477
Messor bouvieri, 44:379
Metachirus nudicaudatus, 37:427, 37:428
Metaponium, 45:309
Metastoma roemeri, 42:472, 42:473, 42:476
Metcalf, Artie L., see Worthington, Richard D., and —
Metcalf, Christopher, Frank Pezold, and Betty G. Crump, Food habits of introduced rainbow trout (*Oncorhynchus mykiss*) in the upper Little Missouri River drainage of Arkansas, 42:148–154
Metopilio, 38:236–238
Metopium brownei, 43:101, 45:79, 45:340
Metoponium, 45:464
Mexican big-eared bat *Idionycteris phyllotis* (Vespertilionidae) in the state of Oaxaca, México, first record of the, Carlos Bonilla, Emma Cisneros, and Victor Sánchez-Cordero, 37:429–430
Mexican jays (*Aphelocoma ultramarina*,

Corvidae) overcoming defenses of two species of wooly bear caterpillars (Arctiidae), observations of, David H. Siemens and Erick Greene, 40:232–233
Mexican spotted owl habitat characteristics in southwestern Chihuahua, Mexico, Luis A. Tarango, Raul Valdez, Phillip J. Zwank, and Manuel Cardenas, 42:132–136
Mexipyrgus churinceanus, 43:283
Mexistiobia manantialis, 43:283
Mexithauma quadripaludium, 43:283
Mexobisium, 41:145
Meyer, Susan E., see Baskin, Carol C., —
Micrarionta immaculata, 45:450
Micrasema, 44:24
bactro, 39:252
onisca, 42:498, 42:499
Micrathene whitneyi, 40:357, 43:235, 44:311–323
Microbial populations from eastern woodrat caches, change in, Diane M. Post and James E. Urban, 38:30–35
Microcerculus marginatus, 43:232
Microclimate and understory structure of live oak (*Quercus fusiformis*) clusters in central Texas, USA, Leila Gass and Paul W. Barnes, 43:183–194
Micrococcus
luteus, 38:74, 38:75
varians, 38:74, 38:75
Microcreagrina, 41:148
Microcyclops
anceps, 43:258
ceibaensis, 43:258
dubitabilis, 43:258
rubellus, 43:258, 43:261
varicans, 43:258
Microcylloepus, 44:24
similis, 42:496
Microdiaptomus cokeri, 43:258, 43:261
Microdistribution of the water penny *Psephenus montanus* (Coleoptera: Psephenidae), with notes on life history and zoogeography, Chad M. Murvosh, 38:119–126
Microgeographic variation in morphometric characters of the white-footed mouse, *Peromyscus leucopus*, Douglas A. Elrod and Michael L. Kennedy, 40:42–49
Microgramma nitida, 45:79
Microhylidae, 43:8
Microlestes nigrinus, 46:208, 46:209
Micromenetus brongniartianus, 43:283
Micromycteris
brachyotis, 45:341, 45:342, 45:344
megalotis, 40:32, 40:35, 40:37, 43:496, 44:232, 45:344
nicefori, 38:300
schmidtorum, 45:344
sylvestris, 44:232
Micropsectra nigripila, 42:166
Micropterus
dolomieu, 37:262–264, 41:313, 42:265, 42:266, 42:268–273, 42:275, 42:283, 45:28, 46:216–221, 46:303
punctulatus, 37:142, 37:143, 41:301, 41:302, 41:304, 45:279
salmoides, 37:140, 37:142, 37:143, 37:163, 37:180–184, 37:262–266, 37:358, 38:12, 39:110, 39:228, 39:233, 41:75, 41:158, 41:167, 41:301, 41:302, 41:304, 41:313, 42:268, 42:283, 44:160, 44:392–394, 45:271, 45:279, 45:285, 46:154, 46:155, 46:162, 46:216, 46:217, 46:220, 46:303, 46:313, 46:316
Microrhopala rubrolineata, 41:141, 41:142
Microsatellite variation in two populations of mountain lions (*Puma concolor*) in Texas, Christopher W. Walker, Louis A. Harveson, Michael T. Pittman, Michael E. Tewes, and Rodney L. Honeycutt, 45:196–203
Microscopic eggshell characteristics in the collared lizard, *Crotaphytus collaris* (Sauria: Crotaphytidae), Stanley E. Trauth, Chris T. McAllister, and Wei Chen, 39:45–52
Microsomacanthus, 39:205
hopkinsi, 40:326, 40:327
Microtus, 39:93, 39:208, 40:53, 43:53, 44:181, 45:61, 45:62
agrestis, 43:345
arvalis, 43:345, 43:349
californicus, 39:131, 39:132, 42:3, 42:5, 42:6, 42:10, 45:206
canicaudus, 43:345
longicaudus, 38:177, 40:51, 45:63, 45:64
mexicanus, 37:92, 38:176, 41:95–98, 42:475, 46:94
mogollonensis, 38:176–178
montanus, 39:287, 40:51, 40:421–422, 42:475, 43:345, 46:94
oaxacensis, 41:95–98
ochrogaster, 37:59, 37:61, 37:62, 39:199, 39:209, 40:162, 41:190, 41:192, 41:193, 45:45, 45:48–51, 46:126, 46:128
pennsylvanicus, 37:54, 37:58, 37:59, 37:61–63, 39:358, 39:384, 40:162, 42:101–102, 43:345, 46:126
pinetorum, 43:98, 44:407–409
quasiater, 41:95
umbrosus, 41:95
Microvelia, 44:25
Micrurus
bernadi, 40:122
fitzingeri, 39:173
laticollaris, 39:173
Middendorf, George A., III, see Goldberg, Stephen R., —
Middendorf, George A., III, Wade C. Sherbrooke, and Eldon J. Braun, Comparison of blood squirted from the circumorbital sinus and systemic blood in a horned lizard, *Phrynosoma cornutum*, 46:384–387
Migoya, Rodrigo, and Guy A. Baldassarre, Harvest and food habits of waterfowl wintering in Sinaloa, Mexico, 38:168–171
Migration chronology and distribution of redheads on the lower Laguna Madre, Texas, Christine M. Custer, Thomas W. Custer, and Phillip J. Zwank, 42:40–51
Mikesic, David G., see Mead, Jim I., and —
Milford, Elizabeth Remington, Ant communities in flooded and unflooded riparian forest of the middle Rio Grande, 44:278–286
Millan, Andres, see Velasco, Josefa, and —
Miller, C. Richard, see Morrell, Thomas E., —
Miller, C. Richard, see Rabe, Michael J., —
Miller, D. S., B. G. Campbell, R. G. McLean, E. Campos, and D. F. Covell, Parasites of swift fox (*Vulpes velox*) from southeastern Colorado, 43:476–479
Miller, Estelle K., see Vaughn, Caryn C., —
Miller, Harvey W., see Ray, James D., and —
Miller, Mark E., Use of historic aerial photography to study vegetation change in the Negrito Creek watershed, southwestern New Mexico, 44:121–137
Miller, Mark P., Diana N. Kimberling, and Paul Keim, Re-analysis of genetic structure among populations of *Rana pipiens* in Arizona and Utah, 44:527–530
Miller, Richard E., and Laura F. Huenneke, The relationship between density and demographic variation within a population of *Larrea tridentata*, 45:313–321
Miller, Richard E., and Laura Foster Huenneke, Size decline in *Larrea tridentata* (creosotebush), 41:248–250
Miller, Robert Rush, see Fabiola Guzmán, Ana, —
Mills, G. Scott, see Brown, Bryan T., —
Milton, Suzanne J., W. R. J. Dean, G. I. H. Kerley, M. T. Hoffman, and W. G. Whitford, Dispersal of seeds as

nest material by the cactus wren, 43:449–452
Mimidae, 38:62, 42:227
Mimocichla plumbea, 43:72
Mimon
bennettii, 40:33, 40:35, 40:37, 45:344
cozumelae, 38:81
crenulatum, 45:341, 45:343, 45:344
Mimosa, 37:50
bahamensis, 40:30, 45:340
benthami, 44:58
biuncifera, 37:49, 37:52, 37:53, 37:380, 38:151, 41:425, 42:189, 46:195, 46:250
borealis, 46:401
dysocarpa, 37:49, 37:52, 37:53, 38:194, 42:189
luisana, 43:38
melacophylla, 43:276
Mimosestes
amicus, 38:385–387
nubigens, 37:108, 37:111, 37:113, 37:114
Mimulus, 44:406
glabratus, 45:418
latidens, 38:390
Mimus
polyglottis, 42:202
polyglottos, 37:254, 37:389, 38:46, 38:62, 40:357, 42:227, 43:456, 44:486
Minikara achras, 43:101
Ministrymon leda, 39:142
Minnich, Richard A., see Patten, Michael A., and —
Minomus jarrovii, 46:159
Minytrema melanops, 37:146, 45:278
Mionectes oleaginea, 43:230–232
Mirabilis, 46:4, 46:5
froebelii, 39:340
longiflora, 39:340
multiflora, 39:340
nyctaginea, 39:340
Miridae, 39:339, 42:129, 44:508
Mistharnophantia sima, 41:141, 41:142
Mistretta, Orlando, and Aaron Liston, Genetic diversity, gene flow, and relictualism in *Claytonia lanceolata* var. *peirsonii*, a rare montane perennial from southern California, 37:223–230
Misumena vatia, 43:435
Misumenoides formosipes, 43:435
Misumenops, 43:435, 45:462
celer, 43:430, 43:431
Mitchell, Christine A., Thomas W. Custer, and Phillip J. Zwank, Redhead duck behavior on lower Laguna Madre and adjacent ponds of southern Texas, 37:65–72
Mitella
odontoloma, 43:212, 43:213
pentandra, 43:205
stauropetala, 43:205
Mitoura spinetorum, 44:378
Mniobia circinata, 40:258
Mniotilta varia, 45:163
Mnium
arizonicum, 45:230
cupidatum, 45:230
Moapa coriacea, 39:192–195, 43:115–122
Moapa coriacea and *Gila seminuda* and status information on other fishes of the Muddy River, Clark County, Nevada, the status of, G. Gary Scoppettone, Peter H. Rissler, M. Bridget Nielsen, and James E. Harvey, 43:115–122
Moffett, K. Evan, see Dyer, James M., and —
Mogollon vole (*Microtus mogollonensis*) in New Mexico and Arizona, notes on the distribution of the, Jennifer K. Frey and Charles T. LaRue, 38:176–178
Moina
macropa, 40:323
micrura, 40:323, 40:324
Moinidae, 40:322, 40:323
Moir, W. H., see Huckaby, Laurie Stroh, and —
Moisture, seeds, and reproductive failure in Texas wildrice (*Zizania texana*), Paula Power, 42:435–440
Mojica, Camille L., The re-discovery of *Brachyrhaphis punctifer* (Poeciliidae), 41:67–69
Molecular systematics of the genus *Pimephales* (Teleostei: Cyprinidae), Timothy R. Schmidt, Thomas E. Dowling, and John R. Gold, 39:241–248
Moll, Don, see Peterson, Chris L., —
Moll, Don, see Thomas, R. Brent, —
Moll, Don, see White, Don, Jr., and —
Molles, Manuel C., Jr., see Ellis, Lisa M., —
Molluginaceae, 46:240
Mollugo, 46:240
Mollusca for Grand Canyon National Park and Arizona, new records of, Earle E. Spamer and Arthur E. Bogan, 38:293–298
Moloch, 43:393
horridus, 43:391
Molossidae, 38:111, 38:117, 43:484–490, 44:542–543
Molossops temminckii, 44:326, 44:327
Molossus
ater, 45:342, 45:344
molossus, 44:233
rufus, 39:281
Molothrus, 45:169
aeneus, 42:227, 45:173
ater, 38:46, 40:95, 40:358, 41:443, 42:227, 43:453, 43:456, 44:227, 44:486, 44:540, 45:44, 45:173
Molt of northern shovelers wintering in South Texas, William D. Tietje and Justin K. Vreeland, 42:454–459
Momotidae, 44:508
Momotus momota, 43:231
Monanthochloe, 42:224
littoralis, 40:394, 40:399, 40:401, 45:431, 45:435, 45:438, 45:439, 45:442
Monanthochloo, 40:401, 40:403
littoralis, 40:394, 40:402
Monarda, 46:240
fistulosa, 45:401
punctata, 38:225, 38:226, 44:407, 44:434
Monoanthochloe littoralis, 45:434
Monogononta, 46:213–216
Monommata arndti, 45:369
Monomorium, 44:144
marjoriae, 44:459
minimum, 37:431, 37:432, 38:138, 38:139, 42:231, 44:281, 45:291, 45:293, 45:460, 45:465, 45:468, 46:397, 46:398, 46:400
Monophyllus redmani, 37:415–418
Monopsyllus vison, 46:95
Monrós, Juan Salvador, see Sasa, Mahmood, and —
Montaña, Carlos, and Alfonso Valiente-Banuet, Floristic and life-form diversity along an altitudinal gradient in an intertropical semiarid Mexican region, 43:25–39
Montaña, Carlos, see Valverde, Pedro Luis, —
Montane rattlesnakes and prescribed fire, Lawrence J. Smith, Andrew T. Holycross, Charles W. Painter, and Michael E. Douglas, 46:54–61
Montane snake *Rhadinaea lachrymans* (Colubridae), a significant range extension for the, James R. McCranie and Larry David Wilson, 46:113–114
Montane vole (*Microtus montanus arizonensis*) in New Mexico, a new locality of the, Jennifer K. Frey, Javier H. Fraga, and Francisca C. Bermudez, 40:421–422
Montanoa tehuacana, 43:39
Montemayor, J., see Aguilera, C., —
Monterrubio, Tiberio, James W. Demastes, Livia Leon-Paniagua, and Mark S. Hafner, Systematic relationships of the endangered Queretaro pocket gopher (*Cratogeomys neglectus*), 45:249–252
Moore, David, see Glenn, Edward, —
Moorhead, Daryl L., see Roberson, Mary, and —
Mora, Miguel A., Feeding flights of cattle egrets nesting in an agricultural ecosystem, 42:52–58
Moraceae, 42:119, 44:508, 45:332
Morales G., Angeles, see Galindo-Leal, Carlos, —

Moraria cristata, 43:259
Moraxella, 38:74
Mordella atrata, 46:209
Mordellidae, 46:209
Morelet's crocodile (*Crocodylus moreletii*) in southern Belize, distribution of, Steven G. Platt, John B. Thorbjarnarson, and Thomas R. Rainwater, 44:395–398
Moreno, Griselda, see Castillo-Rivera, Manuel, —
Moreno-Valdez, Arnulfo, First record for the kinkajou, *Potos flavus* (Carnivora: Procyonidae) in Tamaulipas, Mexico, 41:457–458
Moreno-Valdez, Arnulfo, The fringed myotis, *Myotis thysanodes* (Chiroptera: Vespertilionidae), in Tamaulipas, Mexico, 44:404–405
Morgan, Gary S., see Lucas, Spencer G., and —
Moring, J. Bruce, and Kenneth W. Stewart, Influence of sex and eggcase presence on predatory behavior of the wolf spider *Pardosa valens* Barnes (Araneae: Lycosidae), 37:132–137
Morjan, Carrie L., and James N. Stuart, Nesting record of a Big Bend slider turtle (*Trachemys gaigeae*) in New Mexico, and overwintering of hatchlings in the nest, 46:230–234
Morkillia mexicana, 43:39
Mormoopidae, 45:345–347
Mormoops megalophylla, 40:31–35, 40:37, 45:344, 45:345
Moromorpha, 37:109
Morone
  americana, 42:283, 42:285
  chrysops, 41:313, 42:266, 42:268, 42:283, 43:338, 45:279
  saxatilis, 41:167, 41:313, 44:388–392, 45:277, 45:279, 45:282
Moronidae, 40:316
Morphological variation among the Mexican lampreys (Petromyzontidae: *Lampetra*: subgenus *Tetrapleurodon*), John Lyons, Oscar J. Polaco, and Philip A. Cochran, 41:365–374
Morphometric comparison of pupfish populations, *Cyprinodon nevadensis*, at Shoshone and Tecopa, California, Frances R. Taylor and John W. Pedretti, 39:300–303
Morrell, Thomas E., Michael J. Rabe, James C. deVos, Jr., Heather Green, and C. Richard Miller, Bats captured in two ponderosa pine habitats in north-central Arizona, 44:501–506
Morris, John R., and Kenneth L. Steigman, Effects of polygyne fire ant invasion on native ants of a blackland prairie in Texas, 38:136–140
Morrison, Joan L., Persistence of the meadow jumping mouse, *Zapus hudsonius luteus*, in New Mexico, 37:308–311
Morrison, Michael L., and Linnea S. Hall, Responses of mice to fluctuating habitat quality I. Patterns from a long-term observational study, 43:123–136
Morrison, Michael L., see Aigner, Paul A., —
Morrison, Michael L., see Bias, Michael A., and —
Morrison, Michael L., see Cutler, Tricia L., and —
Morrison, Michael L., see Fitzgerald, Christopher S., —
Morrison, Michael L., see Hall, Linnea S., —
Morrison, Michael L., see Hardy, Paul C., —
Morrison, Michael L., see Morton, Martin L., —
Morrison, Michael L., see Smallwood, K. Shawn, and —
Morrison, Michael L., see Turner, John W., Jr., and —
Morrison, Michael L., William M. Block, Linnea S. Hall, and H. Sheridan Stone, Habitat characteristics and monitoring of amphibians and reptiles in the Huachuca Mountains, Arizona, 40:185–192
Morrone, Juan J., David Espinosa Organista, Claudia Aguilar Zúñiga, and Jorge Llorente Bousquets, Preliminary classification of the Mexican biogeographic provinces: a parsimony analysis of endemicity based on plant, insect, and bird taxa, 44:507–514
Morton, Martin L., Michael L. Morrison, Linnea S. Hall, and Maria E. Pereyra, Life history parameters in mice exposed to a prolonged drought, 40:18–28
Morus, 39:92, 40:162, 42:127, 42:357
  rubra, 45:400, 45:404, 46:179
Motacillidae, 38:62, 42:227
Motothrus ater, 43:158
Mouldsia, 39:86
Moulton, Michael P., see Haner, Thomas W., —
Moulton, Stephen R., II, Daniel Petr, and Kenneth W. Stewart, Caddisflies (Insecta: Trichoptera) of the Brazos River drainage in north-central Texas, 38:19–23
Moulton, Stephen R., II, see DeWalt, R. Edward, —
Mountain lion predation on pronghorn in central Arizona, Richard A. Ockenfels, 39:305–306
Mountain lion vocalizations and hunting behavior, K. Shawn Smallwood, 38:65–67
Mountain plover (*Charadrius montanus*) breeding in Utah, observations on, Keith S. Day, 39:298–300
Movement ecology and thermal biology of *Bogertophis subocularis* from Texas (Serpentes: Colubridae), Marlin W. Sawyer and John T. Baccus, 41:182–186
Movement of threatened Ozark cavefish in Logan Cave National Wildlife Refuge, Arkansas, Myron L. Means and James E. Johnson, 40:308–313
Movements and demography of the Sonoran mud turtle, *Kinosternon sonoriense*, Paul A. Stone, 46:41–53
Movements and home range of salt marsh harvest mice, Michael A. Bias, and Michael L. Morrison, 44:348–353
Movements and nesting habitat of lesser prairie-chicken hens in Colorado, Kenneth M. Giesen, 39:96–98
Movements and reproduction of hardhead and Sacramento squawfish in a small California stream, Gerold C. Grant and Paul E. Maslin, 44:296–310
Movements of suburban and rural coyotes at Saguaro National Park, Arizona, Dixie L. Bounds and William W. Shaw, 42:94–99
Moxostoma
  austrinum, 39:109
  congestum, 37:180–184, 37:262–265, 42:265, 42:268, 42:270–272, 42:275, 46:217
  erythrurum, 37:142, 37:143, 37:145, 37:146, 41:301, 41:302, 45:277
  erythurum, 45:278
  macrolepidotum, 42:282
  rhothoecum, 41:155
Mrazekiella pilosa, 43:259
Muchmore, William B., A remarkable new genus and species of Pseudoscorpionida (Syarinidae) from a cave in Arizona, 41:145–148
Muchmore, William B., and Robert B. Pape, Description of an eyeless, cavernicolous *Albiorix* (Pseudoscorpionida: Ideoroncidae) in Arizona, with observations on its biology and ecology, 44:138–147
Muehl, George T., see Anderson, James T., —
Mueller, Gordon, Mike Horn, Joe Kahl, Jr., Thomas Burke, and Paul Marsh, Use of larval light traps to capture razorback sucker (*Xy-*

rauchen texanus) in Lake Mohave, Arizona-Nevada, 38:399–402
Mueller, Gordon, see Horn, Michael J., —
Mugil cephalus, 37:17, 41:75, 41:76, 45:514, 45:516, 45:520, 46:156
Muhlenbergia, 44:430, 45:171
arenacea, 44:195, 45:315, 45:316
cuspidata, 40:137
emersleyi, 46:248
minutissima, 46:285
montana, 46:285, 46:287, 46:291
porteri, 43:450
porteri, 38:225, 39:346, 43:54, 43:165, 43:166, 43:442, 43:449–451, 45:315, 45:316
pungens, 40:134
reverchonii, 42:443, 45:412, 45:413
rigens, 46:285
torreyi, 45:413, 45:414
virescens, 46:285
wrightii, 46:285
Muhlenbergii porteri, 45:185
Mulcahy, Gerald P., see Thompson, J. Rock, —
Mule deer in the Texas Panhandle, range expansion of, Jan F. Kamler, Warren B. Ballard, and Danny A. Swepston, 46:378–379
Muliani, Lisa, see Williamson, Paula S., —
Muma, Martin H., see Cokendolpher, James C., —
Munroa squarrosa, 38:225, 38:226
Munsterman, Walter E., see Clark, Bryon K., —
Muntingia calabura, 38:24, 38:27, 38:28
Muridae, 42:236, 44:109–112, 44:194
Murphey, Thomas G., see Rathbun, Galen B., —
Murray, Roy C., see Whiting, Martin J., —
Murvosh, Chad M., Microdistribution of the water penny *Psephenus montanus* (Coleoptera: Psephenidae), with notes on life history and zoogeography, 38:119–126
Mus, 41:188
musculus, 38:285, 39:3, 39:5, 39:8, 39:55, 39:92, 39:131, 39:132, 40:162, 41:54–59, 41:132, 41:193, 42:15, 42:16, 42:18, 43:98, 43:148, 44:84, 44:481, 45:45, 45:49–51, 46:68, 46:126, 46:340, 46:341
Musa paradisiaca, 38:24
Muscicapidae, 42:140, 42:227, 44:508
Muscidae, 38:170
Mustela
erminea, 38:279–280, 38:341, 40:154, 43:345
eversmanni, 43:345
frenata, 37:393, 38:341, 39:92, 39:356, 40:154, 41:352, 43:106
nigripes, 43:344–351
nivalis, 38:341, 40:154, 43:345
vison, 43:345
Mustelidae, 40:227–228
Mustelus
californicus, 38:220
henlei, 38:220
Muth, Robert T., and Steven M. Meismer, Marking otoliths in razorback sucker embryos and larvae with fluorescent chemicals, 40:241–244
Muth, Robert T., see Ruppert, Jack B., —
Muth, Robert T., see Swift-Miller, Susan M., —
Muths, Erin, An observation on caching of prey by a long-tailed weasel (*Mustela frenata*), 43:106
Muths, Erin, Therese L. Johnson, and Paul Stephen Corn, Experimental repatriation of boreal toad (*Bufo boreas*) eggs, metamorphs, and adults in Rocky Mountain National Park, 46:106–113
Mutillidae, 37:110, 43:249–255, 46:221–222
Mutual exclusion by dolichoderine ants on a rich food source, Justin W. Van Zee, Walter G. Whitford, and Walter E. Smith, 42:229–231
Myadestes
townsendi, 43:456
unicolor, 43:232
Mycetophagidae, 37:108
Mycetophila, 42:499
Mycobacterium leprae, 40:415
Myers, Orrin B., see Hein, Eric W., and —
Myers, Stephen J., see White, Scott D., and —
Mygalomorphae, 45:128–132, 45:299–305
Myiarchus
cinerascens, 37:254, 38:46, 38:179, 40:232
cinerascens, 40:357
cinerscens, 42:226
crinitus, 40:355, 40:357
tuberculifer, 40:232
tyrannulus, 37:388, 37:390, 40:357, 42:226
Myiobius sulphureipygius, 43:231, 43:232
Myioborus pictus, 40:81
Myliobatis californica, 38:221
Mylohyus, 40:293
Mylopharodon conocephalus, 38:218, 44:296–310
Mylopharyngodon piceus, 44:222
Myocaster
coypu, 42:432
coypus, 41:462, 42:436
Myocastor coypus, 41:91
Myodopsylla
gentilis, 46:95
nordina, 46:95
Myopsocidae, 39:83, 39:86
Myopsocus, 39:86
minutus, 39:88
Myosotis verna, 45:401, 45:402
Myosurus minimus, 38:390
Myotis, 38:113, 39:287
albescens, 44:326, 44:327
auriculus, 39:177, 43:394–396, 44:501–504, 44:506
californicus, 38:111, 38:116, 44:495, 44:497, 44:502–504, 44:506, 45:339, 45:350
ciliolabrum, 38:116, 39:211–212, 44:502–504, 44:506, 45:350
elegans, 38:81, 39:281–283
evotis, 41:322, 41:323, 43:394–396, 44:501–506
grisescens, 40:309, 42:23
keaysi, 40:34, 40:35, 40:37, 45:344
keenii, 43:395
leibii, 39:177
levis, 44:324, 44:326
lucifugus, 38:76, 38:162, 41:277, 41:322, 41:323, 43:489, 44:398, 44:399
nigricans, 39:281, 39:282, 44:233, 44:326, 44:327
occultus, 44:501–506
riparius, 44:326
thysanodes, 38:111, 39:177, 43:396, 44:113, 44:398, 44:399, 44:404–405, 44:496, 44:502–506, 46:380
velifer, 38:73–76, 38:159–163, 44:414–415, 44:495, 44:497, 46:358–360
vivesi, 45:526
volans, 39:177, 41:322, 41:323, 44:502–506, 45:350
yumanensis, 38:116, 44:398, 44:399, 44:495, 44:497, 44:502–504, 44:506, 46:380
Myrica asplenifolia, 37:39
Myriophyllum spicatum, 41:463
Myrmecina americana, 46:398, 46:400
Myrmecocystus
depilis, 42:229
mexicanus, 42:229–231
mimicus, 42:229
romainei, 42:229
Myrmecofauna (Hymenoptera: Formicidae) along an altitudinal gradient in the Sierra Madre Oriental of northeastern Mexico, the, Karla Y. Flores-Maldonado, Sherman A. Phillips, Jr., and Gerardo Sánchez-Ramos, 44:457–461
Myrmecophaga tridactyla, 46:252–254
Myrothecium, 45:21
Myrsinaceae, 42:503–504
Mystacina
robusta, 45:526
turberculata, 45:526
Mytilina
acanthopora, 45:368
mucronata, 45:368
ventralis, 45:368

Mytilinidae, 45:368
Myxidium serotinum, 40:111, 40:112, 40:328, 40:329

Naemorhedus
crispus, 40:147
goral, 40:147
sumatraensis, 40:147
Naididae, 42:163, 42:166, 44:514–516
Nais elinguis, 44:515, 44:516
Najas, 42:266
guadalupensis, 37:206, 37:208
marina, 38:169, 39:373
Najera, Sonia R., see Zwank, Phillip J., —
Nama xylopodum, 42:472
Nannobisium, 41:147, 41:148
Naranjo, Luis G., and Ralph J. Raitt, Breeding bird distribution in Chihuahuan Desert habitats, 38:43–51
Nasella leucotricha, 43:301
Nassella, 45:509
leucotricha, 42:194–200
Nasturtium
officinale, 45:388, 45:418
officionale, 44:43
Nasua narica, 43:101, 45:173, 45:329–331
Natalus stramineus, 40:29, 40:32–35, 40:37
Nathalis iole, 39:142, 44:376–378
Native range and conservation of the White Sands pupfish (*Cyprinodon tularosa*), John S. Pittenger and Craig L. Springer, 44:157–165
Natural cactus spine injury in the tree lizard, *Urosaurus ornatus* (Phrynosomatidae), Stephen R. Goldberg, H. J. Holshuh, George A. Middendorf, III, and Naida Zucker, 39:303–305
Natural history and distribution of the lizard *Barisia rudicollis* (Anguidae), Alejandro Zaldívar-Riverón and Adrian Nieto-Montes de Oca, 46:391–396
Natural history, interspecific association, and incidence of the cave bats of Yucatán, México, Héctor T. Arita, and Jorge A. Vargas, 40:29–37
Natural history of the black jackrabbit (*Lepus insularis*) from Espíritu Santo Island, Baja California Sur, México, Fernando A. Cervantes, Sergio T. Alvarez-Castañeda, Bernardo Villa-Ramírez, Consuelo Lorenzo, and Julieta Vargas, 41:186–189
Natural regeneration in encinal woodlands of southeastern Arizona, Simone Borelli, Peter F. Ffolliott, and Gerald J. Gottfried, 39:179–183
Naucoridae, 37:170, 37:176, 40:249–254, 41:1–26, 44:25
Naucoris femorata, 40:253
Navarretia fossalis, 38:390
Navarro S., Adolfo G., see Ramírez B., Patricia, —
Navicula
arvensis, 37:151
capitata, 46:204
circumtexa, 46:204
confervacea, 37:151
cryptocephala, 37:151, 46:204
cuspidata, 37:151
decussis, 37:151
exigua, 37:151
graciloides, 46:204
gregaria, 46:202, 46:204
integra, 46:204
lanceolata, 46:204
miniscula, 37:151
mutica, 37:151
peregrina, 46:204
pseudoreinhardtii, 37:151
pupula, 37:151
radiosa, 37:151
secreta, 46:204
tripunctata, 37:151
zanoi, 37:151
Naviculaceae, 37:150
Navo, Kirk W., and Jeffery A. Gore, Distribution of the big free-tailed bat (*Nyctinomops macrotis*) in Colorado, 46:370–376
Neal, Paul R., Mark R. Stromberg, and Karen A. Jepson-Innes, Aposematic coloration in *Dactylotum variegatum* (Orthoptera: Acrididae): support from vertebrate feeding trials, 39:21–25
Neale, Jennifer C. C., see Sacks, Benjamin N., and —
Nearctoctenophthalmus pseudagyrtes, 46:94, 46:95
Neck, Raymond W., and Harold L. Schramm, Jr., Freshwater molluscs of selected playa lakes of the southern High Plains of Texas, 37:205–209
Neck, Raymond W., see Horne, Francis R., —
Nectandra sanguinea, 45:424, 45:425, 45:427
Nectopsyche
candida, 38:21
intervena, 38:21
Negrete, Irma G., see Nelson, Allan D., —
Neidium
affine, 46:204
ampliatum, 46:204
iridis, 46:204
Neighbor relationships among theraphosid spiders in Belize, nearest, Steven B. Reichling, 44:518–521
Neighbors and grazing on the growth of *Helianthus paradoxus*, the effects of, J. K. Bush and O. W. Van Auken, 42:416–422
Neill, Robert L., Recent trends in shorebird migration for north-central Texas, 37:87–88
Neivamyrmex
harrisi, 43:335
isodentatus, 43:333–335
nigrescens, 38:138, 38:139, 44:281, 45:465
opacithorax, 44:458, 44:459
swainsoni, 43:335
Nelson, Allan D., Jim R. Goetze, Irma G. Negrete, Victor E. French, Mary P. Johnson, and Lashea M. Macke, Vegetational analysis and floristics of four communities in the Big Ball Hill region of Padre Island National Seashore, 45:431–442
Nelson, Jim A., see Ott, James R., —
Nelson, Mansel, see Glenn, Edward, —
Nelson, S. Mark, and Douglas C. Andersen, An assessment of riparian environmental quality by using butterflies and disturbance susceptibility scores, 39:137–142
Nelsonia neotomodon, 37:92–93
Nelumbo lutea, 45:411, 45:416–418
Nematoda, 42:329–332
Nemertea, 42:162–169
Nemonychidae, 44:508
Nemoura, 42:500
Nemouridae, 39:251
Neobuxbaumia, 44:58
tetetzo, 43:27, 43:34, 43:38
Neochoroterpes, 38:252
mexicana, 38:263
Neofiber
alleni, 37:59, 37:60, 37:62
leonardi, 37:54, 37:59–63
Neonates of Merriam's pocket gopher (*Pappogeomys merriami merriami*), a description of, Beatriz Villa-Cornejo, Richard M. Engeman, and William Lopez-Forment, 40:410–411
Neosho madtom distribution and abundance in the Spring River, Chris Wilkinson, David Edds, Joseph Dorlac, Mark L. Wildhaber, Christopher J. Schmitt, and Ann Allert, 41:78–81
Neothremma alicia, 39:252
Neotoma, 37:61, 37:62, 37:101–116, 37:380, 38:164, 39:129, 41:228, 42:498, 43:55, 45:61, 45:352–355, 46:1–7, 46:56, 46:382
albigula, 37:58, 37:103, 39:54, 39:55, 39:293, 39:383, 41:116, 41:121, 41:122, 42:15, 42:16, 43:148, 43:158,

43:271, 44:189, 45:63, 45:64, 45:182, 46:94
anthonyi, 41:459
bunkeri, 41:459
cinerea, 41:116, 41:122
floridana, 37:58, 38:30–35, 38:146–149, 38:341, 40:162, 44:408, 45:45, 45:48–51, 45:352
fusciipes, 39:131, 41:116, 41:121, 42:3, 42:5, 42:6, 42:10, 43:481, 43:482, 45:206, 45:525
goldmani, 37:381
lepida, 37:281, 37:284, 39:99, 39:128, 39:131, 39:133, 40:284, 40:344, 40:366–372, 41:116, 41:121, 41:122, 41:188, 43:125, 43:480–483, 46:1, 46:245
martinensis, 41:459
mexicana, 39:54, 39:55, 41:272, 44:234, 45:63, 45:64, 46:94
micropus, 37:58, 38:224–235, 39:3, 39:5, 41:116–122, 43:271, 45:352
Neotrichia, 38:19, 38:23
minutisimella, 38:21, 38:22
okopa, 38:21
Neotropic cormorant, *Phalacrocorax brasilianus* (Aves: Phalacrocoracidae), breeding record for Arkansas, first, Mary K. Coldren, Cade L. Coldren, Kimberly G. Smith, and Sterling S. Lacy, 43:496–498
Nepidae, 44:508
Nepsera aquatica, 43:449
Nepticulidae, 38:3
Nerodia
cyclopion, 42:233
erythrogaster, 43:13–18
fasciata, 42:233, 43:10, 43:13, 43:16, 43:17
rhombifer, 43:10–18
sipedon, 43:18
Nesler, Thomas P., see Ruppert, Jack B., —
Nest and nest-site characteristics of a western population of fox sparrow (*Passerella iliaca*), Kevin J. Burns and Shannon J. Hackett, 38:277–279
Nest construction and bathing behaviors in the nine-banded armadillo, *Dasypus novemcinctus*, observations of, James F. Taulman, 39:378–380
Nest-reuse for the yellow-billed cuckoo in Arkansas, Jennifer K. Wilson, 44:538–539
Nest-site characteristics and nesting success of the greater pewee in Arizona, Jameson F. Chace, Shawn T. McKinney, and Alexander Cruz, 45:169–175
Nest-site selection, nest design and nest-entrance orientation in Bachman's sparrow, Thomas M. Haggerty, 40:62–67
Nesting and display flights of the vermilion flycatcher in western Texas, observations on, Tim J. Archer, 41:443–444
Nesting and foraging of least terns on sand pits in central Nebraska, Erika C. Wilson, Wayne A. Hubert, and Stanley H. Anderson, 38:9–14
Nesting behavior and movements of western pond turtles, *Clemmys marmorata*, Galen B. Rathbun, Nancy Siepel, and Dan Holland, 37:319–324
Nesting productivity, food habits, and nest sites of bald eagles in Colorado and southeastern Wyoming, Mary L. Kralovec, Richard L. Knight, Gerald R. Craig, and Robert G. McLean, 37:356–361
Nesting record of a Big Bend slider turtle (*Trachemys gaigeae*) in New Mexico, and overwintering of hatchlings in the nest, Carrie L. Morjan and James N. Stuart, 46:230–234
Nesting records of American avocet and black-necked stilt in Baja California Sur, México, Roberto Carmona, Cynthia Carmona, Alfredo Castillo-Guerrero, and Elvia M. Zamora-Orozco, 45:523–524
Nesting records of the black phoebe (*Sayornis nigricans*) in southernmost Texas, first, Timothy Brush, 46:237–238
Neureclipsis crepuscularis, 38:21
Neutrocyclops brevifurca, 43:258, 43:261
Neviusia alabamensis, 39:34–39
Nichols, Lyle B., The effect of bot fly (*Cuterebra*) infestation on cold-night trap mortality in cactus mice (*Peromyscus eremicus*), 39:383–386
Nico, Leo G., and R. Trent Martin, The South American suckermouth armored catfish, *Pterygoplichthys anisitsi* (Pisces: Loricariidae), in Texas, with comments on foreign fish introductions in the American Southwest, 46:98–104
Nicotiana, 42:410
Nicrophorus, 45:464
americanus, 38:275–277, 40:50, 40:53, 40:54
investigator, 40:50–55
marginatus, 38:276
orbicollis, 38:276, 40:53, 40:54, 41:481
pustulatus, 38:276, 40:53, 40:54
sayi, 38:276
tomentosus, 38:276
vespilloides, 40:53
Nielsen, M. Bridget, see Scoppettone, G. Gary, —
Nietfeldt, Joseph W., see Ballinger, Royce E., —
Nieto-Montes de Oca, Adrian, see Zaldívar-Riverón, Alejandro, and —
Nilsson, Jan A., and Clarence Dan Johnson, Laboratory hybridization of *Stator beali* and *S. limbatus*, with new host records for *S. limbatus* and *Mimosestes amicus* (Coleoptera: Bruchidae), 38:385–387
Nine-banded armadillo (Dasypodidae) in Nebraska, recent northern records of the, Patricia W. Freeman and Hugh H. Genoways, 43:491–495
Ninia, 45:359
diademata, 40:122
Niptus ventriculus, 37:107
Nitela virginiensis, 43:250
Nitidulidae, 37:108, 46:209
Nitokra
lacustris, 43:259
pusilla, 43:259
spinipes, 43:259
typica, 43:259
Nitzschia
acicularis, 46:202, 46:204
adapta, 46:204
agnewii, 46:204
amphibia, 37:151, 46:204
bicrena, 37:151
caledonensis, 46:204
capitellata, 37:151
communis, 46:204
confinis, 46:204
denticula, 37:151
dissipata, 37:149, 37:151, 37:153, 46:204
filiformis, 46:204
fonticola, 37:151, 46:202, 46:204
frustulum, 37:151, 46:204
gandersheimiensis, 46:202, 46:204
geitleri, 46:204
gracilis, 37:151, 46:204
hungarica, 37:151
kutzingiana, 37:151
linearis, 37:151
microcephala, 46:204
palea, 37:151, 46:204
paleacea, 46:204
rautenbachiae, 46:204
reversa, 46:204
romana, 37:151
sigma, 46:204
sigmoidea, 46:204
spiculoides, 46:204
subvitrea, 46:204
vermicularis, 46:204
vitrea, 46:204
Nitzschiaceae, 37:151
Nixe
criddlei, 38:261
simplicioides, 38:261
Noccea montana, 43:211
Nocedal, Jorge, and Millicent S. Fick-

en. Helpers in the bridled titmouse, 43:279–282
Nocibiotes granulatus, 45:309
Noctilio leporinus, 40:34
Noctuiidae, 38:3
Nodocion ruftthoracicus, 46:209
Nolina, 46:195
texana, 38:151
Notops
capito, 45:360
naufragus, 40:122
nebulosus, 39:172
Norris, Steven M., see Taylor, Christopher M., and —
North American porcupine (*Erethizon dorsatum*) in Mexico, status of the, Rurik List, Gerardo Ceballos, and Jesús Pacheco, 44:400–404
Northern bobwhite brood habitat in southern Texas, components of, J. Scott Taylor and Fred S. Guthery, 39:73–77
Northern pygmy mouse, *Baiomys taylori*, in southwestern Oklahoma, further extension of the range of the, Renn Tumlison, V. Rick McDaniel, and James G. Duffy, 38:285–286
Northward extension of the range of Richmond's squirrel, *Sciurus richmondi*, Frederick A. Ulmer, Jr., 40: 416–418
Nosophyllus fasciatus, 46:95
Nostoc, 44:18
commune, 45:95, 45:96, 45:103, 45: 105, 45:106
Notemigonus crysoleucas, 37:142, 42:282, 42:284, 45:278
Noteridae, 37:170
Nothoscordum bivalve, 37:369
Nothrotheriops shastensis, 42:313
Notibus puberulus, 45:309
Notiosorex, 43:54
crawfordi, 37:61, 38:58, 39:54, 39:55, 44:334, 44:336, 44:339, 44:341
Notochordal filament in young gar: morphological characteristics, Geoffrey C. Carpenter, 40:427–428
Notocotylus attenuatus, 40:326
Notommata
aurita, 45:369, 45:371, 45:372
glyphura, 45:369
Notommatidae, 45:367, 45:369, 45:372
Notonecta, 39:160
undulata, 42:261
Notonectidae, 41:62, 41:63
Notophthalmus
maculosus, 40:432
viridescens, 37:425, 40:432
Notopthalmus viridescens, 41:62
Nototriton, 41:111–115
alvarezdeltoroi, 41:111, 41:112
barbouri, 41:111, 41:112, 41:115
nasalis, 41:111, 41:112, 41:114, 41: 115, 43:88, 43:89
sanctibarbarus, 41:111–115, 43:88–91
veraepacis, 41:111, 41:112
Notropis, 37:220, 42:281
amabilis, 37:180–185, 37:262–266, 42: 268, 42:270–272, 42:275, 46:217, 46:218
atherinoides, 41:312, 42:282, 43:336, 43:338, 43:340, 45:278, 45:280
bairdi, 45:278
blennius, 38:12, 42:282, 45:278
boops, 37:142, 37:143, 38:302–303, 43: 340, 45:277, 45:278
braytoni, 37:180–184, 37:262–264
buchanani, 41:301, 41:302, 41:304, 45: 274, 45:277, 45:278, 45:282, 45: 285–287
cornutus, 38:303, 42:285
dorsalis, 42:282
fumeus, 40:373
girardi, 42:113, 42:114, 42:117
hubbsi, 37:89–92
jemezanus, 37:180–184, 37:186, 37: 262–264
ludibundus, 37:142, 37:143
ortenburgeri, 43:340
potteri, 45:278, 45:286, 45:287
rubellus, 37:142, 43:338
stramineus, 37:262–265, 38:12, 38:397, 39:390, 41:301, 41:302, 41:312, 42: 112, 42:114, 42:117, 42:268, 42: 270–272, 42:274, 42:275, 42:282, 45:278, 45:286, 45:287, 46:217, 46: 218, 46:316, 46:319
suttkusi, 43:338, 43:340
volucellus, 41:301, 41:302, 41:304, 43: 340
Noturus
albater, 39:222
eleutherus, 39:222, 46:12
exilis, 39:222, 41:69–73, 46:12, 46:13
flavus, 37:332, 41:301, 41:302, 42: 282, 46:14
gilberti, 39:222
hildebrandi, 46:13, 46:14
lachneri, 44:522–526
leptacanthus, 46:12
miurus, 44:106
nocturnus, 37:142, 39:222, 44:106
placidus, 37:330–333, 39:217–223, 41: 78–81, 41:301, 41:302, 46:8–15
Novomessor albisetosus, 44:379
Nucifraga
caryocatactes, 40:183
columbiana, 40:83, 41:270
Numenius
americanus, 37:388, 37:389, 38:60, 38: 62, 38:63, 44:486
phaeopus, 37:400
Numerical analyses of vegetation based on environmental relationships in the southern Chihuahuan Desert, Pedro Luis Valverde, José Alejandro Zavala-Hurtado, Carlos Montaña, and Exequiel Ezcurra, 41: 424–433
Núñez G., Arturo, see Sánchez H., Cornelio, —
Núñez-Garduño, Arturo, see Sánchez-Hernández, Cornelio, —
Nuphar, 38:169
lutea, 45:419
luteum, 42:266
Nutrient input to an alpine tundra: an aeolian insect component, James Halfpenny and Michael Heffernan, 37:247–251
Nutritional quality of shinnery oak buds and catkins in response to burning or herbivory, Chad S. Boyd, Lance T. Vermeire, T. G. Bidwell, and Robert L. Lochmiller, 46:295–301
Nyctaginaceae, 39:336–341, 42:409–415, 42:490, 46:403
Nycterophaeta luna, 39:340
Nycticeius, 38:117
humeralis, 38:112
Nycticorax
nycticorax, 43:497
violaceus, 42:225
Nyctidromus albicollis, 42:226
Nyctinomops
femorosaccus, 44:345
laticaudatus, 40:34, 44:326, 44:328
macrotis, 41:86–87, 43:266, 44:345, 45:339, 46:370–376
Nyctomys sumichrasti, 44:233
Nyctotherus cordiformis, 40:111, 40:112
Nymphaea, 38:169
ampla, 42:224
odorata, 45:419
Nymphalidae, 44:378, 45:3
Nymphalis antiopa, 39:142, 44:376–378
Nymphoides, 38:169
Nymphophilus
acarinatus, 43:283
minckleyi, 43:283
Nyssa, 39:361
biflora, 45:400, 45:404, 45:405
sylvatica, 39:380, 44:242, 45:403
Nyssaceae, 44:507
Nyssodesmus python, 40:56–61
Nyssun subtilis, 43:251

O. sartorii, 45:239
O'Donnell, Steve, see Zale, Alexander V., —
O'Farrell, Thomas P., see Rautenstrauch, Kurt R., and —
O'Farrell, Thomas P., see Warrick, Gregory D., —
O'Shea, Thomas J., and Terry A. Vaughan, Population changes in bats from central Arizona: 1972 and 1997, 44:495–500
Oakey, David D., Larry G. Talent, and O. Eugene Maughan, Genetic

structure of a founding white crappie population (Teleostei: *Pomoxis annularis*) in an Oklahoma reservoir, 38:246–251
Oberlin, Gaye E., Joseph P. Shannon, and Dean W. Blinn, Watershed influence on the macroinvertebrate fauna of ten major tributaries of the Colorado River through Grand Canyon, Arizona, 44:17–30
Oberlin, Gaye E., see Wetzel, Mark J., —
Obliquaria reflexa, 41:326, 41:327, 42:334
Obovaria
castanea, 41:326
jacksoniana, 41:326, 41:327
Oceanites oceanicus, 42:308
Oceanodroma
castro, 42:308
homochroa, 42:308
leucorhoa, 42:304, 42:308
melania, 42:305, 42:308
microsoma, 42:305, 42:308
tethys, 42:308
Ochreanodroma markhami, 42:308
Ochrimnus mimulus, 45:15–23
Ochrotichia, 44:24
Ochrotomys nuttalli, 39:360–362
Ochrotrichia
capitana, 38:19, 38:21, 38:23
cristata, 38:21
Ockenfels, Richard A., Mountain lion predation on pronghorn in central Arizona, 39:305–306
Ocnerodrilidae, 44:515, 44:516
Ocotona princeps, 38:30
Octodon, 42:488
degus, 39:209
Octodontidae, 42:488–493
Octodontomys, 42:488
Octomys, 42:488
Odocoileous hemionus, 45:193
Odocoileus, 37:434, 38:164, 40:162, 46:346
hemionus, 37:211, 37:325, 37:358, 37:375, 38:65, 38:172–174, 38:198–205, 38:206–211, 38:349, 39:68, 39:92, 39:165–170, 39:209, 39:269–275, 40:288, 40:344, 41:48, 41:459, 43:163, 43:345, 44:97, 44:236–240, 44:543–544, 45:335, 45:475, 46:81–86, 46:183, 46:188, 46:354–357, 46:378–379
virginianus, 37:197, 37:209, 37:375, 37:422–424, 38:78, 38:79, 38:127–135, 39:165, 40:288, 41:48, 42:35, 43:300–312, 44:32, 44:97, 44:184–192, 44:199, 44:236, 44:239, 44:543, 45:259, 45:472, 46:118
virginiaus, 43:41
Odontoceridae, 38:22
Odontopsyllus dentatus, 46:95
Oecetis
avara, 38:21
cinerascens, 38:21
ditissa, 38:21, 38:22
inconspicua, 38:21
nocturna, 38:21, 38:22
Oecobiidae, 39:391–394
Oecobius annulipes, 39:391–394
Oedura lesueurii, 41:184
Oenothera, 38:227, 46:240
canescens, 44:437, 45:389, 45:414
deltoides, 42:91, 42:92, 43:48
drummondii, 44:265–267, 44:269, 45:433, 45:434, 45:436, 45:437, 45:441
elata, 42:86–93
hookeri, 42:86
laciniata, 45:435, 45:441
macrocarpa, 42:391, 44:436
missouriensis, 45:417
rhombipetala, 44:434
triloba, 45:105
Oenotheria missouriensis, 37:369
Ogilbia pearsei, 44:168, 44:171
Oligacanthorhynchidae, 42:232–234
Oligacanthorhynchus, 42:234
Oligacanthorhynchid cystacanths (Acanthocephala) in a long-nosed snake, *Rhinocheilus lecontei lecontei* (Colubridae) and a Mojave rattlesnake, *Crotalus scutulatus scutulatus* (Viperidae) from Maricopa County, Arizona, David P. Bolette, 42:232–236
Oligoneuriidae, 37:170, 38:259, 38:268, 39:61, 41:71, 41:72
Oligophlebodes minutus, 39:249, 39:250, 39:252–254
Oligoryzomys fulvescens, 41:96
Olisthaerus, 45:464
Olneya, 42:203, 42:205, 42:207
tesota, 37:284, 38:198, 38:206, 41:258, 42:202, 42:206, 42:350, 44:544, 46:82, 46:355
Olvera, O., R. F. Rockwell, M. E. de la Rosa, J. Guzman, M. J. Laverde, and L. Levine, Studies of sibling *Drosophila* species from Laguna Verde, Veracruz, Mexico. V. Temporal stability in dispersive behavior, 38:15–18
Olvera, Olga, see Guzman, Judith, —
Onagraceae, 42:86, 42:91, 45:441, 46:240
Onchocercidae, 42:329, 42:330
Oncicola
canis, 42:232, 42:234
oncicola, 42:234
Oncorhynchus, 39:227
apache, 37:118
clarki, 37:117, 40:240, 44:153, 46:107
gilae, 37:117–125, 38:409, 39:228
mykiss, 37:117, 37:120, 37:122, 37:123, 37:146, 37:166–177, 37:404, 38:221, 39:108, 39:110, 39:228, 39:233, 40:240, 42:74–85, 42:148–154, 44:153, 44:205, 44:297, 44:385, 46:162
nerka, 37:407
tshawytscha, 46:38
Oncostoma cinereigulare, 43:231
Ondatra zibethicus, 37:358, 44:190, 44:408
Onocosmoecus unicolor, 39:252
Onosmodium molle, 42:391
Onthophagus
brevifrons, 37:107
browni, 37:107
cochisus, 37:107
lecontei, 37:107, 37:111, 37:113
subopacus, 37:107, 37:115
Ontogeny and description of eggs, larvae, and early juveniles of the fountain darter, *Etheostoma fonticola*, Thomas P. Simon, Thomas M. Brandt, Kerry G. Graves, and Bobby G. Whiteside, 40:208–215
Onychocamptus mohammed, 43:260
Onychomys, 43:55
arenicola, 39:293, 43:270–272
leucogaster, 37:61, 38:224–235, 38:285, 39:3, 39:5, 39:8, 39:54, 39:55, 39:293, 40:162, 42:15, 42:16, 42:354, 43:270, 43:272, 44:101–105, 45:45, 45:48–51, 46:94
torridus, 40:344, 41:132, 44:101, 44:104, 46:66, 46:67, 46:334, 46:384
Onychorhynchus mexicanus, 43:231, 43:232
Oochoristica scelopori, 40:331–333
Opalina, 40:112
obtrigonoidea, 40:111
Opephora anasata, 37:150
Opheodrys aestivus, 43:10
Ophidascaris, 46:223–225, 46:228
labiatopapillosa, 46:229
Ophidonais serpentia, 42:166
Ophioglossum engelmannii, 44:442
Ophionyssus natricis, 37:426, 42:331, 42:332
Ophionyssus natricis (Acarina: Macronyssidae) para México, primer reporte de ácaro, María Luisa Rodríguez y David Lazcano, 37:426
Ophiotaenia magna, 45:362–365
Ophisaurus attenuatus, 43:9
Ophisternon
aenigmaticum, 44:168, 44:170
infernale, 44:168, 44:171
Ophryacus undulatus, 40:122
Ophryastes
argentatus, 37:108, 37:114
tuberosus, 37:109, 37:114
varius, 37:109, 37:113, 37:114
Ophrys sphegodes, 37:302
Opiliones, 38:236–240
Opisocrostis
hirsuta, 46:95
hirsutus, 43:147, 43:148
labis, 46:94, 46:95

tuberculata, 46:95
tuberculatus, 43:150
Opisodasys
keeni, 46:94, 46:95
robustus, 46:95
Opluridae, 43:6
Oporornis
formosus, 45:163
philadelphia, 45:163, 45:165
tolmiei, 42:140, 43:456, 45:163, 45:164
Opsanus beta, 39:266, 44:168
Opsopoeodus emiliae, 39:242, 39:245, 39:246
Optioservus, 44:24
Opuntia, 37:434, 38:78, 38:79, 38:228, 38:229, 39:303, 39:355, 40:102, 40:366, 40:428, 41:116, 41:187, 41:429, 42:34, 42:35, 42:37, 42:444, 43:27, 43:165, 43:166, 43:397, 43:470, 45:31, 45:339, 45:444, 46:195, 46:240
acanthocarpa, 40:367
basilaris, 41:317
bigelovii, 39:365
cholla, 37:281–284
chuya, 44:401
echinocarpa, 39:365
engelmanii, 45:386
engelmannii, 38:151, 41:315–318, 42:240–242, 43:276, 43:277, 44:535, 45:439, 46:274
errinacea, 41:317
excelsa, 44:202
ficus-indica, 45:304
fragilis, 40:137
fulgida, 41:427
hemifusa, 45:413, 45:417
imbricata, 37:387, 40:355, 41:427, 43:450, 45:315, 45:406, 45:413, 45:414
kelvinensis, 46:274
leptocaulis, 37:387, 38:143, 40:355, 41:427, 42:444, 43:200, 43:276, 43:277, 45:406, 45:411, 46:274
leucotricha, 41:425
lindheimeri, 42:444, 43:200, 45:352
littoralis, 45:509
macrorhiza, 45:387, 45:413, 45:414, 45:434, 45:435, 45:438, 45:439, 45:441
parryi, 42:340
phaeacantha, 37:275, 38:226, 42:444, 43:200, 45:406, 45:411
polyacantha, 46:210
polycantha, 44:101
ramosissima, 40:368
rastrera, 37:387, 41:425
robusta, 37:380
streptacantha, 37:379–385
stricta, 41:436
tunicata, 37:387
versicolor, 38:208
violacea, 38:309–315, 41:316
violaceae, 43:197, 43:200
Orbignya cohune, 43:229
Orbygna guacuyule, 45:302
Orchidaceae, 45:441
Orchopeas
caedens, 46:95
fulleri, 46:95
leucopus, 46:95
neotomae, 46:95
sexdentatus, 46:95
Orconectes
neglectus, 40:312
palmeri, 37:329
Orcuttia, 42:378
Oreamnos americanus, 40:147
Oregonomys, 37:234, 37:241
Oreobroma pygmaea, 43:211
Oreochromis
aurea, 43:115, 43:116, 43:118, 43:119, 43:121
aureus, 39:108, 39:110, 42:268, 46:103
mossambicus, 44:168, 44:169, 46:103
niloticus, 46:103
Oreochrysum parryi, 43:209, 43:210
Oreohelicidae, 38:295
Oreohelix, 38:294, 38:297
neomexicana, 42:472–474
strigosa, 38:295
Oreopanax xalapensis, 40:122
Oreoscoptes montanus, 37:386, 40:98, 40:357, 42:227
Oreoxis alpina, 43:211, 43:212
Organochlorine concentrations in potential avian prey of breeding peregrine falcons in north-central New Mexico, Patricia L. Kennedy, Dale W. Stahlecker, and Jeanne M. Fair, 40:94–100
Origoceras, 43:283
Ornithodoros talaje, 42:331
Ornithonyssus bacoti, 37:426
Oropsylla
hirsuta, 43:147–150, 43:154, 46:95
idahoensis, 46:95
labis, 46:94, 46:95
montana, 46:95
tuberculata, 46:95
Orphulella
pelidna, 37:364, 37:365, 37:368
speciosa, 37:364
Örstan, Aydin, A new species of bdelloid rotifer from Sonora, Mexico, 40:255–258
Ortalis poliocephala, 44:202
Ortega-Rubio, Alfredo, Robert Barbault, and Gonzalo Halffter, Population dynamics of *Sceloporus grammicus* (Sauria: Phrynosomatidae) at Durango, Mexico, 44:64–72
Ortega-Rubio, Alfredo, see Alvarez-Cárdenas, Sergio, —
Orthilia secunda, 43:211
Orthocyclops modestus, 43:258, 43:261
Orthodon microlepidotus, 38:221
Orthogeomys, 39:278
cherriei, 40:412, 40:413
grandis, 44:233
heterodus, 42:323, 42:326
hispidus, 40:411–414
Orthoperus ornatus, 37:110
Orthoptera, 37:362–371, 39:21–25
Orthotrichia
aegerfasciella, 38:21
tarsalis, 38:21
Orthotrichum
alpestre, 45:230
anomalum, 45:230
cupulatum, 45:230
hallii, 45:230
jamesianum, 45:230
laevigatum, 45:230
pellucidum, 45:230
pumilum, 45:230
rupestre, 45:230
Oryctolagus cuniculus, 43:345
Oryttus yumae, 43:252
Oryx gazella, 43:163–169
Oryza sativa, 42:424
Oryzoborus funereus, 43:232
Oryzomys
alfaroi, 41:96
bombycinus, 38:300
couesi, 39:99–100
melanotis, 39:282
palustris, 41:55, 44:481, 46:340, 46:341
Oryzopsis, 43:138
hymenoides, 38:229, 39:299, 40:281–287, 41:216, 44:195, 45:444, 46:184
Oscillatoria, 37:341, 44:18, 44:20, 44:23, 44:25, 44:27
Osmia subfaciata, 40:429
Oso hormiguero *Tamandua mexicana* en la costa del estado de Michoacán, el, Cornelio Sánchez H., Ma. de Lourdes Romero A., y Arturo Núñez G., 37:88–89
Osteichthyes, 37:217–222, 39:11–20, 39:192–195, 41:288–292
Osteichthys, 41:43–47
Ostracods of Texas playas, Francis R. Horne, 41:450–455
Ostrand, Kenneth G., Monte L. Thies, Darrell D. Hall, and Mark Carpenter, Gar ichthyootoxin: its effect on natural predators and the toxin's evolutionary function, 41:375–377
Ostrya virginiana, 40:130, 40:131, 40:135, 40:138, 44:427, 45:400, 45:401
Oswaldocruzia pipiens, 40:111–114, 45:362–365, 46:223–225, 46:228, 46:229
Oswaldofilaria, 42:330
Otiorhynchus ovatus, 45:464
Otonyctomys hatti, 45:342, 45:343
Ototylomys phyllotis, 38:81, 39:282, 44:111
Ott, James R., Jim A. Nelson, and Traci

Caillouet, The effect of spider-mediated flower alteration on seed production in golden-eye phlox, 43:430–436
Otten, Mark R. M., and Gary L. Holmstead, Effect of seeding burned lands on the abundance of rodents and leporids on Naval Petroleum Reserve No. 1, Kern County, California, 41:129–135
Otus
asio, 39:382, 42:349, 45:41
flammeolus, 40:80
kennicottii, 42:349–351, 43:235, 44:311–323
trichopsis, 43:280
Ouercus, 42:132, 46:333
turbinella, 42:478, 42:479
Overestimation of deer densities in Michilia Biosphere Reserve, Durango, Mexico, Carlos Galindo-Leal, 37:209–212
Overlap in habitat and food use between coyotes and San Joaquin kit foxes, P. J. White, Katherine Ralls, and Callie A. Vanderbilt White, 40:342–349
Overton, Jacob McC., Host specialization and partial reproductive isolation in desert mistletoe (*Phoradendron californicum*), 42:201–209
Ovibos moschatus, 40:147
Ovis
ammon, 40:147
aries, 37:358, 39:92, 42:25, 46:118
canadensis, 37:325, 37:372–378, 38:172–174, 38:206, 39:165, 40:139–147, 41:81–82, 41:399–402, 44:354–360, 45:184–195, 45:335, 46:87–93, 46:345–353
dalli, 39:165, 40:147
nivicola, 40:147
vignei, 40:147
Owen, James G., see Peppers, John A., —
Owen, Robert D., see López-Wilchis, Ricardo, —
Owen, Robert D., see Sánchez-Hernández, Cornelio, —
Oxalis, 45:92, 45:93
dillenii, 45:105
drummondii, 42:444
stricta, 40:137, 41:403
Oxybelis aeneus, 39:173
Oxybelus xerophilus, 43:251
Oxyethira
aculea, 38:21, 38:22
azteca, 38:21
Oxygen concentration and substrate on seed germination and seedling growth of Texas wildrice (*Zizania texana*), effects of, Paula Power and Paul J. Fonteyn, 40:1–4
Oxyloma, 38:294, 38:297
haydeni, 38:295, 38:296
Oxyopes apollo, 46:209
Oxyopidae, 46:209
Oxypsylla keeni, 46:94, 46:95
Oxyura
australis, 41:195
jamaicensis, 37:268–273, 37:396, 38:60, 38:61, 38:63, 41:195–198, 43:221
maccoa, 37:272, 41:195
Oyler-McCance, Sara J., Kenneth P. Burnham, and Clait E. Braun, Influence of changes in sagebrush on Gunnison sage grouse in southwestern Colorado, 46:323–331
Ozark big-eared bat (*Corynorhinus townsendii ingens*) in Oklahoma, 1957 to 1995, status of the, Brenda S. Clark, William L. Puckette, Bryon K. Clark, and David M. Leslie, Jr., 42:20–24
Ozotocerus bezoarcticus, 44:331

Pacheco, Jesús, see List, Rurik, —
Pachybrachis mitis, 37:108
Pachycereae, 46:273
Pachycereeae, 41:258
Pachycereus, 37:283, 41:187
pectin-aboriginum, 45:304
pringlei, 37:282
pringlei, 37:282, 41:257, 41:258, 42:108, 46:2, 46:4, 46:262, 46:273
Pachycondyla villosa, 44:458, 44:459
Pachycormus discolor, 46:2, 46:5
Pachysentis canicola, 42:232, 42:233
Pacifastacus, 38:159
Packera multilobata, 46:286
Painter, Charles W., see Holycross, Andrew T., —
Painter, Charles W., see Smith, Lawrence J., —
Palaemonetes
hobbsi, 42:501
kadiakensis, 37:329, 42:501
lindsayi, 42:501
mexicanus, 42:501
paludosus, 42:501
suttkusi, 42:501–503
Palaemonidae, 42:501–503
Palafoxia
callosa, 44:272–277
lindenii, 41:435
sphacelata, 38:226
Palmaceae, 43:74
Palmer, Jeffrey S., see Swanson, David L., —
Paltothemis, 44:25
Pandion haliaetus, 37:395, 37:396, 38:61, 42:58
Pangaeus
bilineatus, 37:109
congruus, 37:109, 37:111
Panicoideae, 46:282
Panicum, 37:369, 38:151, 38:275, 42:387, 46:240, 46:286
amarum, 44:267, 44:268, 45:434, 45:436, 45:437, 45:442
anceps, 45:416
bulbosum, 46:285, 46:287, 46:290
capillare, 38:225
capillarioides, 45:433–435, 45:437, 45:442
hallii, 42:441, 42:443
maximum, 41:220
obtusum, 38:226, 42:254, 43:165, 43:166, 43:450, 45:413, 45:414
portoricense, 45:434, 45:435, 45:437, 45:442
virgatum, 39:197, 40:137, 41:54, 44:429–431, 44:433–436, 44:439, 45:47, 45:387, 45:403, 45:409, 45:411, 45:412, 45:415, 46:178, 46:296
Panthera
leo, 38:341, 40:226
onca, 40:155, 44:96–100, 44:202, 45:537–542, 46:252
tigris, 38:67
Pantomorus, 37:115
elegans, 37:109, 37:113, 37:114
Pantosteus clarki, 40:304
Pantosteus
clarki, 46:303
discobolus, 41:378, 41:379
Paonis excaecatus, 44:87
Papaver rhoeas, 42:414
Papaveraceae, 42:119
Pape, Robert B., see Muchmore, William B., and —
Papilio cresphontes, 39:142
Papilionidae, 44:378, 44:508
Pappogeomys, 39:278
bulleri, 42:323–326, 44:178, 44:179, 45:250, 45:251
castanops, 43:148
merriami, 39:156–159, 40:410–411
tylothinus, 39:158
Parabuteo unicinctus, 42:225, 44:319
Paracotalpus punticollis, 46:209
Paracyclops
fimbriatus, 43:258, 43:259
poppei, 43:259
Paradasyhelea, 42:166
Paragnetina media, 39:255
Paraleptophlebia
bicornuta, 38:263
debilis, 38:263
heteronea, 38:263, 38:264, 39:251
memorialis, 38:263, 38:264
packi, 38:263
pallipes, 38:263
temporalis, 38:263
vaciva, 38:263
Paraleuctra vershina, 39:249–251, 39:254
Paralichthys californicus, 38:221
Parameletus, 38:268
Paraneotoma, 38:116

Parapholido incurvae, 40:394, 40:395, 40:402, 40:403
Parapholis incurva, 40:394, 40:398, 40:402, 40:403
Parapoynx
allionealis, 44:213
obscuralis, 44:213–214
Parapseudoleptomesochra
botosaneanui, 43:259
subterranea, 43:259
Pararge aegeria, 43:293
Parasites of swift fox (*Vulpes velox*) from southeastern Colorado, D. S. Miller, B. G. Campbell, R. G. McLean, E. Campos, and D. F. Covell, 43:476–479
Parasites of the pickerel frog, *Rana palustris* (Anura: Ranidae), from the southern part of its range, Chris T. McAllister, Stanley E. Trauth, and Charles R. Bursey, 40:111–116
Paratrechina, 46:397–399
terricola, 37:432, 38:138, 38:139, 45:119, 46:397, 46:398
vividula, 46:397, 46:398
Paratylotropidia brunneri, 37:364–366, 37:368, 37:370
Parcoblatta, 39:382
Pardalophora
apiculata, 37:364
phoenicoptera, 37:364, 37:366, 37:368, 37:370
saussurei, 37:364
Pardosa, 45:462
amentata, 37:132, 37:135
distincta, 37:132–135
valens, 37:132–137
xerophila, 46:209
Paridae, 42:140, 43:279
Parietaria
obtusa, 45:103
pennsylvanica, 44:11, 44:12, 44:14, 45:401
pensylvanica, 45:401
Parkinsonia
aculeata, 38:385, 41:220, 44:536
macra, 38:385, 38:387
texana, 38:385, 38:387, 43:276, 43:277
Paropomala wyomingensis, 39:22
Parthenium incanum, 41:427, 43:54, 43:442
Parthenocissus, 39:339
quinquefolia, 44:428, 45:400, 45:405, 45:410, 45:411
Parulinae, 42:106–107
Parus
atricapillus, 42:140, 43:456, 46:119
bicolor, 40:167
caeruleus, 40:167
carolinensis, 40:167
gambeli, 40:76, 40:80, 40:81, 43:456
gambelli, 42:140
inornatus, 40:88
major, 38:341, 40:167
nigra, 43:279
sclateri, 37:388, 37:389
wollweberi, 40:232
Pascopyrum smithii, 44:425, 44:431, 44:434–438, 45:389, 45:413, 45:414
Paspalum, 46:240, 46:241, 46:396
laeve, 45:412, 45:415
monostachyum, 44:265–267, 44:269, 45:431, 45:433, 45:434, 45:436, 45:437–439, 45:442
setaceum, 38:225, 38:226, 38:232, 38:233, 44:431, 44:432, 45:433–435, 45:437, 45:442
stramineum, 38:225
Passalidae, 45:358
Passer domesticus, 37:389, 37:390, 40:167, 42:227, 43:457, 43:513
Passerculus sandwichensis, 37:73, 37:399, 37:400, 38:60, 38:63, 38:64, 40:358, 42:140, 42:227, 44:486
Passerella iliaca, 38:277–279, 40:81
Passeridae, 42:227
Passeriformes, 44:535–538
Passerina
amoena, 42:140, 43:453, 43:456
ciris, 40:355, 40:357, 42:227
cyanea, 43:456
versicolor, 40:357
Passiflora, 41:436, 45:296
incarnata, 45:420
tenuiloba, 46:402
Passifloraceae, 41:436, 46:402
Pasturella, 46:94
Paternal care of pups benefit breeding female coyotes?, does, Benjamin N. Sacks and Jennifer C. C. Neale, 46:121–126
Patten, Michael A., and Richard A. Minnich, Procellariiformes occurrence at the Salton Sea and Sonoran Desert, 42:302–311
Patterns of abundance and human use of the vulnerable understory palm, *Chamaedorea radicalis* (Arecaceae), in a montane cloud forest, Tamaulipas, Mexico, F. Andrew Jones and David L. Gorchov, 45:421–430
Paukert, Craig P., and William L. Fisher, Abiotic factors affecting summer distribution and movement of male paddlefish, *Polyodon spathula*, in a prairie reservoir, 45:133–140
Paulissen, Mark A., James M. Walker, James E. Cordes, and Harry L. Taylor, Diet of diploid and triploid populations of parthenogenetic whiptail lizards of the *Cnemidophorus tesselatus* complex (Teiidae) in southeastern Colorado, 38:377–381
Paulissen, Mark A., see Walker, James M., —
Paullinia, 43:276
fuscecens, 41:434–440
Pavlik, Bruce M., Perspectives, tools, and institutions for conserving rare plants, 42:375–383
Paxistima myrsinites, 43:209
Pecari
angulatus, 43:228
tajacu, 44:97, 44:199–204, 44:543–544, 45:335, 45:472, 46:246–251, 46:346
Pectis
angustifolium, 38:225
papposa, 38:208
Pectocarya, 46:5
Pedersen, Scott C., Skull growth in cannibalistic tiger salamanders, *Ambystoma tigrinum*, 38:316–324
Pedicularis racemosa, 43:211
Pediculidae, 37:109
Pedilanthus macrocarpus, 37:282, 46:245
Pediomelum subacaule, 42:391
Pedraza R., Roberto, see Eitniear, Jack C., —
Pedretti, John W., see Deacon, James E., —
Pedretti, John W., see Taylor, Frances R., and —
Pegano, 40:402
Peinado, Manual, Francisco Alcaraz, Juan Luis Aguirre, José Delgadillo, and Julio Álvarez, Similarity of zonation within Californian-Baja Californian and Mediterranean salt marshes, 40:388–405
Peirce, Matthew, see Cashman, Jenny L., —
Pelagic birds from coastal Michoacan, records of, J. Fernando Villaseñor and Laura E. Villaseñor, 43:402–404
Pelecanidae, 38:61
Pelecanus
erythrorhynchos, 42:58
occidentalis, 38:60, 38:61, 41:459, 42:302
Peles, John D., Floyd W. Weathersbee, Jr., Paul E. Johns, Jane Griess, Dan L. Baker, and Michael H. Smith, Genetic variation in a recently isolated population of mule deer (*Odocoileus hemionus*), 44:236–240
Pellmyr, Olle, and Elise J. Augenstein, Pollination biology of *Hesperaloe parviflora*, 42:182–187
Pelobatidae, 43:8, 46:104, 46:105
Pelocoris, 40:249–254, 41:1, 41:23
biimpressus, 40:249–251, 40:253, 41:2, 41:4, 41:6, 41:19–22
carolinensis, 40:249–251, 40:253, 41:2, 41:6, 41:19–22
femoratus, 40:249–251, 40:253, 41:3, 41:6, 41:19–22
shoshone, 40:249, 41:19
Pelocoris (Hemiptera: Naucoridae) fau-

na of Texas, the, Robert W. Sites and John T. Polhemus, 40:249–254
Pelocypris
tuberculata, 41:454
tuberculatum, 41:453
Peltodytes dunavani, 42:261
Peltophryne lemur, 46:110
Pence, Danny B., see Beheler, Amanda S., —
Pendleton, Burton K., and Rosemary L. Pendleton, Pollination biology of *Coleogyne ramosissima* (Rosaceae), 43:376–380
Pendleton, Grey W., see Clark, Donald R., Jr., and —
Pendleton, Rosemary L., see Pendleton, Burton K., and —
Penicillus, 41:419
capitatus, 41:420
Pennisetum ciliare, 44:535, 45:433, 45:434, 45:442
Penstemon, 40:182
fendleri, 38:227
palmeri, 42:479
Pentagenia, 38:269
Pentatomidae, 37:109
Peponocephala electra, 38:82–85, 41:283
Peppers, John A., James G. Owen, and Robert D. Bradley, The karyotype of *Peromyscus stirtoni* (Rodentia: Muridae), 44:109–112
Peppers, John A., Phyllis K. Kennedy, and Michael L. Kennedy, Spatial genetic variability in the coyote (*Canis latrans*), 41:388–394
Pepsis, 44:87
Perca flavescens, 37:33, 40:214, 42:283, 42:284, 46:316, 46:319
Percichthyidae, 42:283, 42:287
Percidae, 38:302–303, 39:11–20, 40:316, 40:319, 40:422–425, 42:283, 42:287, 44:214–218, 44:470–477
Percina, 40:319
burtoni, 37:28
caprodes, 37:28, 37:32, 37:33, 40:214, 41:69–73, 41:301, 41:302
carbonaria, 37:28, 37:32, 37:33
copelandi, 41:301, 41:302, 41:304
jenkinsi, 37:28
macrolepida, 37:28–34, 40:214
pantherina, 39:11–20, 40:374, 40:376, 44:470–477
phoxocephala, 41:301, 41:302, 41:304
rex, 37:28
sciera, 37:142, 44:106
Percine macrolepida, 45:279
Perea-Fox, Susana, see Fox, Stanley F., —
Pereyra, Maria E., see Morton, Martin L., —
Pérez-Ponce de León, Gerardo, see Alcaraz, Guillermina, —
Pérez-Ponce de León, Gerardo, see Espinosa-Huerta, Elsa, —
Perezia nana, 38:43, 38:225
Peridinium, 37:339
Perimeter tracing method for estimating basal cover: monitoring the endangered sentry milk-vetch at Grand Canyon National Park, Arizona, a, Peter G. Rowlands and Nancy J. Brian, 41:169–178
Perithemis, 44:25
Peritrechus fraternus, 45:463
Perityle emoryi, 46:5
Perlidae, 39:251, 41:70–72, 42:499
Perlodidae, 37:168–170, 37:173, 39:251, 41:70–72, 42:151, 44:24
Perognathus, 38:58, 38:164, 40:104–107, 43:53–55, 43:132, 44:181
amplus, 42:328, 43:158
apache, 40:104
californicus, 39:128, 39:130, 39:131, 39:133
flavescens, 37:58, 39:55, 40:104, 45:56
flavus, 37:58, 37:61, 39:3, 39:5, 39:8, 39:293, 40:104, 40:106, 42:15, 42:16, 43:148, 43:271, 43:272, 44:101, 44:193, 44:195–197, 44:233, 45:56, 46:94
inornatus, 39:92, 40:344, 41:132, 41:133, 46:66, 46:67, 46:243
longimembris, 40:281, 40:283–286, 42:328, 43:397, 43:399, 43:400, 46:243–245
parvus, 40:18–28, 40:104, 40:106, 43:125, 43:138
Peromyscopsylla
draco, 46:94, 46:95
hamifer, 46:95
hesperomys, 46:94, 46:95
selenis, 46:95
Peromyscus, 38:116, 38:164, 38:395, 39:8, 39:129, 39:135, 39:288, 39:289–291, 39:362, 40:53, 40:162, 41:190, 42:37, 43:53–55, 45:206
attwateri, 40:45, 44:408
aztecus, 37:92, 39:290
beatae, 39:290
boylei, 42:8
boylii, 39:54, 39:55, 39:130, 39:131, 39:133, 42:3, 42:5, 42:6, 42:498, 43:481, 43:482, 45:63, 45:64, 46:94
californicus, 39:130, 39:131, 39:133, 42:3, 42:5, 42:6, 43:405, 43:481, 43:482
crinitus, 40:284
difficilis, 39:54, 39:55, 39:290, 41:270–273
eremicus, 37:281, 39:29, 39:383–386, 41:188, 43:271, 43:405, 43:481, 43:482, 46:245
eva, 39:99
furvus, 44:109, 44:110
gossypinus, 39:360, 39:361, 44:545, 46:342
gratus, 39:290, 41:97
guatemalensis, 44:109
gymnotis, 44:109
leucopus, 38:285, 38:394, 39:3, 39:5, 39:290, 39:293, 39:360, 39:361, 40:42–49, 41:123–128, 41:193, 42:13–18, 42:160, 42:236–237, 43:98, 43:124, 43:131–133, 43:271, 44:408, 44:481, 44:545, 45:45, 45:48–51, 45:61–64, 46:126, 46:334, 46:341
levipes, 39:289, 39:290
maniculatus, 37:61, 38:285, 39:3, 39:5, 39:22, 39:54, 39:55, 39:92, 39:128, 39:130, 39:131, 39:133, 39:209, 39:257, 39:287, 39:293, 39:359, 39:360, 40:18–28, 40:51, 40:52, 40:281, 40:283–286, 40:344, 41:54–59, 41:88, 41:132, 41:133, 41:192, 41:193, 41:270–273, 41:321, 41:459–461, 42:3, 42:5, 42:10, 42:15, 42:16, 42:236, 43:106, 43:123–136, 43:138, 43:148, 43:405–407, 43:480–482, 44:84, 44:101, 44:420, 45:45, 45:48–51, 45:61–64, 45:508–513, 45:525, 46:66, 46:68, 46:126, 46:334, 46:340–342
megalops, 41:97, 44:109
melanocarpus, 41:97
melanotis, 37:92, 39:290
melanurus, 44:109
mexicanus, 39:282, 41:97, 44:109, 44:111
nasutus, 41:321
pectoralis, 44:109
perfulvus, 44:109
sejugis, 41:459
slevini, 41:459
spicilegus, 39:290
stirtoni, 38:81, 44:109–112
truei, 39:54, 39:55, 39:128, 39:130, 39:131, 39:133, 39:290, 40:18–28, 42:3, 42:5, 42:6, 43:123–136, 43:137–146, 45:63, 46:94
winkelmanni, 39:290
yucatanicus, 44:109
zarhynchus, 44:109
Peropteryx macrotis, 40:29, 40:31, 40:33–35, 40:37, 44:231, 44:234, 45:341, 45:343, 45:344
Perry, Travis W., Paul M. Cryan, Steven R. Davenport, and Michael A. Bogan, New locality for *Euderma maculatum* (Chiroptera: Vespertilionidae) in New Mexico, 42:99–101
Persistence of a walking-stick population (Phasmatoptera: Timematodea) after a wildfire, Cristina Sandoval, 45:123–127
Persistence of mountain sheep populations in Arizona, Paul R. Krausman, Richard C. Etchberger, and Raymond M. Lee, 41:399–402
Persistence of the meadow jumping mouse, *Zapus hudsonius luteus*, in New Mexico, Joan L. Morrison, 37:308–311

Perspectives, tools, and institutions for conserving rare plants, Bruce M. Pavlik, 42:375–383
Petalostemum
purpurea, 45:411
purpureum, 37:369
Petenia splendida, 44:168
Peters, Michael S., and Alan D. Afton, Diets of ring-necked ducks wintering on Catahoula Lake, Louisiana, 38:166–168
Peterson, Charles C., Rain-harvesting behavior of a free-ranging desert horned lizard (*Phrynosoma platyrhinos*), 43:391–394
Peterson, Chris L., Robert F. Wilkinson, Don Moll, and Tom Holder, Estimating the number of female *Ambystoma annulatum* (Caudata: Ambystomatidae) based on oviposition, 37:425–426
Peterson, Edward, see Vander Wall, Stephen B., and —
Petr, Daniel, see Moulton, Stephen R., II, —
Petrochelidon pyrrhonata, 44:414–415, 44:486
Petromyzon marinus, 39:109
Petromyzontidae, 39:105–113, 40:316, 41:365–374, 44:106–108
Petrophila, 44:24
Petrophytum caespitosum, 41:170
Peucedramus taeniatus, 37:386, 37:389
Peucetia viridans, 43:430, 43:434
Pezold, Frank, see Metcalf, Christopher, —
pH, volume, osmolality, and sodium and calcium levels of the urine of hibernating *Myotis velifer* from western Oklahoma, variation in, Jenni Shackelford and William Caire, 38:159–163
Phacelia, 43:138, 43:165, 43:166
corrugata, 38:226, 38:232
tanacetifolia, 41:131
Phaeochroa cuvierii, 43:231
Phaethornis
longuemareus, 43:231
superciliosus, 43:230, 43:231
Phainopepla nitens, 37:252, 37:389, 37:390, 40:357, 42:202, 42:227
Phalacrocoracidae, 38:61, 43:496–498
Phalacrocorax, 41:459
auritus, 37:395, 37:396, 38:61
brasilianus, 43:496–498
Phalacropsylla
allos, 46:95
hamata, 46:95
morlani, 46:95
paradisea, 46:95
Phalaenoptilus
nuttalli, 40:357
nuttallii, 37:388, 43:234–241, 44:313
nuttalliis, 44:311
Phalaropus, 39:186
lobatus, 38:62
tricolor, 37:87
Phallichthys fairweatheri, 44:168, 44:170
Phanerodon furcatus, 38:220
Phascolarctos cinereus, 45:261
Phascum cuspidatum, 45:230
Phaseolus, 39:156
Phasianidae, 42:225, 44:508, 45:238–241
Phasmatoptera, 45:123–127
Phaulothamnus spinescens, 38:68, 43:275–277
Pheidole, 37:110, 41:141, 41:142, 44:459, 45:465, 46:397
bicarinata, 38:138
dentata, 37:431, 37:432, 38:138, 38:139, 45:119, 45:120, 46:400
hyatti, 45:120, 45:121
lamia, 37:431, 37:432
metallescens, 37:431, 37:432, 46:397, 46:398, 46:400
pinealis, 44:278, 44:280, 44:281
Phenacobius mirabilis, 41:301, 41:302, 41:304, 42:281, 42:282
Phenocobius mirabilis, 37:142
Pheucticus melanocephalus, 38:164, 40:233, 42:140, 43:456, 45:173
Philadelphus
microphyllus, 42:472
pubescens, 45:400
Philander opossum, 37:427, 37:428, 38:81
Philips, R. Brand, see Garcelon, David K., —
Phillips, Edward C., and Raj V. Kilambi, Food habits of four benthic fish species (*Etheostoma spectabile*, *Percina caprodes*, *Noturus exilis*, *Cottus carolinae*) from Northwest Arkansas streams, 41:69–73
Phillips, Edward C., and Raj V. Kilambi, Utilization of coarse woody debris by Ephemeroptera in three Ozark streams of Arkansas, 39:58–62
Phillips, Polly K., see Sanborn, Allen F., and —
Phillips, Sherman A., Jr., see Flores-Maldonado, Karla Y., —
Phillips, Sherman A., Jr., see Jusino-Atresino, Rafael, and —
Phillips, Susan L., see Sandquist, Darren R., —
Philodendron giganteum, 43:72, 43:74
Philodina, 42:166
Philodinidae, 40:255
Philolithus actuosus, 45:309
Philopotamidae, 37:171, 38:21, 38:22, 44:24
Philotarsidae, 39:83, 39:84
Phitecelobium, 41:425
Phlogothraupis sanguinolenta, 43:232
Phlox
cuspidata, 39:37
drummondii, 43:434
roemeriana, 43:430, 43:431
Phoebe
porphyria, 44:326
tampicensis, 43:276
Phoebis
senna, 45:289, 45:291, 45:292, 45:295
sennae, 39:142
Phoenix
canariensis, 41:219
dactylifera, 41:219
Pholcidae, 45:462
Phoradendron, 46:63
californicum, 37:252, 37:253, 42:201–209
serotinum, 42:202
tomentosum, 42:202
villosum, 42:202
Phoxinus
erythrogaster, 37:142, 37:145, 37:146, 40:310, 41:301, 41:302
phoxinus, 38:401
Phragmites, 44:160
australis, 44:535, 45:415
communis, 40:264, 41:137
Phrynocephalus helioscopus, 43:391
Phrynosoma
cornutum, 38:150–154, 42:233, 43:9, 43:391, 43:443, 43:445, 43:498, 45:74–76, 45:93, 46:173, 46:174, 46:221–222, 46:384–387
coronatum, 42:339–344
douglassi, 39:55, 39:56
modestum, 43:54, 43:445, 43:446, 43:498–499
orbiculare, 39:172
platyrhinos, 37:349, 43:391–394
taurus, 39:172
Phrynosomatidae, 37:311–314, 38:150–154, 38:381–383, 39:303–305, 40:330–333, 42:290–301, 43:6, 43:9, 43:92–95, 43:381–390, 44:57–63, 44:64–72, 45:74–76
Phryosoma cornatum, 42:35
Phyciodes
pratensis, 44:376, 44:378
tharos, 44:375
Phycoides pratensis, 44:377
Phyla
cuneifolia, 44:437, 45:389, 45:414
incisa, 45:105
nodiflora, 45:416, 45:434, 45:435, 45:437, 45:442
Phyllanthus
abnormis, 38:226
polyaonoides, 45:105
polygonoides, 42:444
Phyllodactylus tuberculosus, 39:172
Phyllonorycter, 38:3, 38:4
Phyllonycteris, 40:35
Phyllophaga, 37:107, 40:162
Phyllorhynchus
browni, 43:413
decurtatus, 43:413

Phyllostomidae, 37:420, 38:24–29, 38:111, 41:258, 46:358–362
Phyllostomus
discolor, 39:281
hastatus, 44:411
Phylogeny of North American wild rice, a theory, Francis Horne and Ari Kahn, 42:423–434
Phymosia remota, 42:392
Phyrnosoma
cornutum, 42:342
m'calli, 42:343
Physa, 38:293, 38:295, 42:261
virgata, 43:283
Physalis, 40:162, 43:276, 44:87, 46:5
cinerascens, 44:267, 45:91–93, 45:433–435, 45:442
Physaloptera, 43:477, 45:362–365, 46:223–225, 46:228, 46:229
ranae, 40:113
retusa, 40:331–333
Physella, 38:294, 38:295, 38:297
humerosa, 38:296
virgata, 37:206–208, 38:296
Physeter macrocephalus, 41:279, 41:283
Physidae, 38:167, 38:293, 38:295
Physocyclus, 45:462
Physocypria globula, 41:453, 41:454
Phytogeographic, taxonomic, and genetic implications of phenotypic variation in the *Ponderosae* of the Southwest, Gerald E. Rehfeldt, Boyd C. Wilson, Stephen P. Wells, and Richard M. Jeffers, 41:409–418
Phytoliths for a ponderosa pine-bunchgrass community near Flagstaff, Arizona, diagnostic, Becky K. Kerns, 46:282–294
Pica pica, 40:95, 40:288, 41:48, 41:352, 43:456
Picea, 41:214, 42:446, 45:174
engelmannii, 37:356, 41:321, 43:204, 43:205, 43:208, 43:211, 43:212
englemanni, 41:322
englemannii, 38:176, 44:444–456, 46:107
glauca, 46:283
Picidae, 38:62, 42:140, 42:226, 44:508
Picoides
borealis, 37:296, 40:170, 42:407
pubescens, 45:35, 45:154
scalaris, 37:388, 38:46, 40:357, 42:226, 45:32
villosus, 37:388, 40:80, 40:97
Pieridae, 44:378, 44:508, 45:3
Pieris
napi, 45:67
protodice, 39:142, 45:67
rapae, 45:67
Pierson, Elizabeth A., see Bowers, Janice E., and —
Pigg, Jimmie, see Pyron, Mark, —
Pilidae, 37:194–196
Pilosocereus moritzianus, 41:267
Pilosocereus tillianus, 41:268
Pimelodidae, 44:168
Pimenta dioica, 45:132
Pimephales, 37:219
notatus, 39:241–248, 41:301, 41:302, 41:304
perspicuus, 39:241
promelas, 37:142, 37:180–184, 38:12, 38:364, 38:397, 39:225, 39:233, 39:241–248, 39:390, 40:219, 41:156, 41:301, 41:302, 41:304, 41:312, 42:112, 42:114, 42:117, 42:281, 42:282, 44:46, 44:392–394, 45:278, 45:280, 45:282, 45:285, 46:24, 46:159, 46:162, 46:316, 46:319
tenellus, 39:241–248, 41:302
vigilax, 37:142, 37:180–184, 37:262–265, 39:226, 39:228, 39:233, 39:241–248, 42:268, 42:273, 45:278, 45:280
Pinaceae, 37:92, 41:209, 41:227–238, 44:507, 46:6, 46:286
Pinacodera platicollis, 37:106, 37:111
Pinkovsky, Dennis D., see Bowles, David E., and —
Pinnularia
brebissonii, 46:204
viridis, 46:204
Pinus, 37:386, 37:388, 37:434, 38:77, 38:78, 38:291, 41:96, 42:178, 42:324, 44:65, 46:1, 46:4, 46:6, 46:183, 46:198, 46:358, 46:362
arizonica, 41:189, 41:409–412, 41:415–417, 42:132, 42:133
ayacahuite, 42:132, 42:133
banksiana, 46:283, 46:290
californiarum, 37:43–48
cembroides, 40:186, 41:214, 41:270–273, 44:1, 45:172, 46:55, 46:195
cembroidis, 41:229
chihuahuana, 45:171, 45:172, 46:195
contorta, 43:205, 43:208–211
cooperi, 40:228
coulteri, 38:290
discolor, 37:43, 37:44, 39:180, 41:235, 41:270, 41:271, 41:273
durangensis, 41:409–412, 41:416, 42:133
echinata, 39:359, 39:378, 39:380, 40:63, 45:405, 45:406, 46:57
edulis, 37:43–48, 37:188, 37:213, 37:357, 38:176, 39:53, 40:180, 40:282, 41:207, 41:209, 41:214–216, 41:229, 43:243, 43:377, 43:469–470, 44:122, 44:127, 44:149, 45:8, 45:386, 45:388, 45:406, 45:444, 46:286, 46:292
engelamanii, 40:340
engelmanii, 37:43, 42:133
engelmanni, 44:341, 46:62, 46:63
engelmannii, 40:186, 41:235, 41:409–412, 41:415, 41:416, 46:195
flexilis, 41:207, 41:209, 41:214–216, 43:217, 43:243
greggi, 45:239
hartwegii, 42:345
jeffreyi, 38:290, 41:88
juarezensis, 46:2
lambertiana, 38:277, 38:290
latifolia, 45:171, 45:172
leiophyla, 39:156
leiophylla, 39:180, 40:232, 40:340, 41:235, 42:133, 44:337, 46:55, 46:62, 46:63
lumholtzii, 38:131, 42:133
monophylla, 41:214
monophylla, 37:43, 37:44, 37:47, 38:176, 40:19, 40:77, 41:235, 43:123, 43:124, 43:138, 45:314, 45:350, 46:2, 46:184
montezumae, 39:156, 44:405
palustris, 39:359, 44:242
patula, 40:122, 44:405
ponderosa, 37:43, 37:188, 37:356, 37:387, 38:2, 38:65, 38:176, 38:193, 38:277, 38:290, 39:37, 39:89–90, 39:350–353, 40:130, 40:131, 40:135, 40:137, 40:138, 40:180, 40:340, 40:420, 40:421, 41:153, 41:229, 41:321, 41:409–413, 41:415–417, 42:99, 43:242, 43:266, 43:454, 44:88, 44:121, 44:122, 44:149, 44:375, 44:449, 44:501–506, 44:542, 45:8, 45:9, 45:12, 45:39, 45:40, 45:62, 45:67, 45:171, 45:172, 45:254, 45:388, 45:406, 46:107, 46:195, 46:282–294
pseudostrobus, 39:156
quinquefoliata, 41:409
remota, 40:428, 42:444
rigida, 43:368
sabiniana, 40:86
strobiformes, 45:171, 45:172
strobiformis, 44:122, 44:446, 46:195
strobiformus, 42:99
taeda, 37:327, 39:359, 40:63, 45:387, 45:400, 45:405
teocote, 44:458
Piper, 37:428
amalago, 44:458
glabrescens, 43:70, 43:74–76
hispidum, 43:74, 43:75
Piperaceae, 43:74
Pipilo
chlorurus, 40:80, 42:140, 42:227, 43:453, 43:456
crissalis, 37:297, 37:399, 37:400
erythrophthalmus, 40:86, 40:98
fuscus, 37:389, 38:46, 40:86, 40:357, 43:158
maculatus, 42:140, 43:453, 43:456
Pipistrellus, 38:117
hesperus, 38:116, 44:345, 44:495, 44:497, 45:339, 45:350
pipistrellus, 38:162
subflavus, 44:241

Pipra
coronata, 37:346
mentalis, 43:230–232
Pipromorpha oleaginea, 42:351
Piptochaetium, 46:286
pringlei, 46:285, 46:287, 46:288, 46:292
Piranga
flava, 40:80, 40:81
ludoviciana, 40:76, 40:80, 42:140, 43:456
rubra, 42:104
Pirata, 45:462
Piruna polingii, 44:377, 44:378
Piscatopus, 37:115
griseus, 37:109, 37:113, 37:114
Pisces, 37:337–343, 46:98–104
Pisidium
variabile, 38:294, 38:295
walkeri, 38:294, 38:295
Pisonia, 46:403
Pister, Edwin P., see Ruiz-Campos, Gorgonio, —
Pithecellobium
dulce, 43:276, 44:58, 45:79
elachystophyllum, 43:39
flexicaule, 37:95, 38:68, 38:385, 41:220, 43:275–277
pallens, 43:275–277, 44:458
Pittenger, John S., and Craig L. Springer, Native range and conservation of the White Sands pupfish (*Cyprinodon tularosa*), 44:157–165
Pittenger, John S., and Gary Schiffmiller, Ichthyofaunal decline in Ute Creek, South Canadian River Drainage, New Mexico, 42:112–117
Pittman, Michael T., see Walker, Christopher W., —
Pitts, Richard M., and Jerry R. Choate, Reproduction of the plains pocket gopher (*Geomys bursarius*) in Missouri, 42:238–240
Pitts, Richard M., Gary T. Schimmelpfenig, and Jerry R. Choate, The big free-tailed bat, *Nyctinomops macrotis*, in Missouri, 41:86–87
Pituophis, 37:296
catenifer, 37:293, 43:412, 44:532, 46:173, 46:387
deppei, 39:173
melanoleucus, 37:293, 39:92, 40:341, 41:183, 42:330–332, 43:412, 44:532, 45:173, 46:57
Pitymys, 37:59
Pizonyx wheeleri, 38:111
Placoneis elginensis, 46:204
Plagiola
donaciformis, 41:326
elegans, 41:326
securis, 41:326
Plagiomnium cuspidatum, 45:230
Plagiorhynchidae, 42:234
Plagiotropis
arizonica, 46:204
lepidoptera, 46:205
Planera aquatica, 38:166, 45:404, 45:405
Planorbella
tenuis, 43:283
trivolvis, 37:206–208
Plantaginaceae, 45:442
Plantago, 42:378, 43:165
helleri, 45:103
insularis, 43:166
patagonica, 40:137, 43:450, 44:403
purshii, 37:51
rhodosperma, 44:12, 45:103
rugelii, 40:224
virginica, 45:435, 45:442
wrightiana, 45:420
Platanaus wrightii, 40:186
Platanus, 46:191, 46:192, 46:194
mexicana, 44:458
occidentalis, 37:317, 38:275, 38:404, 42:266, 42:356, 44:428, 44:429, 45:402, 45:403, 45:410
racemosa, 42:75
wrightii, 40:407, 44:337, 44:401, 44:403, 45:170, 46:63, 46:195, 46:196, 46:199
Platichthys stellatus, 38:221
Platt, Steven G., John B. Thorbjarnarson, and Thomas R. Rainwater, Distribution of Morelet's crocodile (*Crocodylus moreletii*) in southern Belize, 44:395–398
Platydracus, 45:464
Platygeomys neglectus, 45:249
Platygobio gracilis, 42:113, 42:114, 42:282
Platygonus compressus, 37:61, 40:293–296
Platygyrium fuscoluteum, 45:230
Platyias quadricornis, 45:367, 45:368
Platypedia, 46:56
Platyrhacidae, 40:56–61
Platyrinchus mystaceus, 43:231, 43:232
Platyrrhinus helleri, 38:81
Platz, James E., see Goldberg, Stephen R., —
Plebejus icarioides, 44:375
Plecoglossus altivelis, 40:243
Plecotus, 38:111, 38:117, 46:380
townsendii, 39:177, 42:20
Plectomerus dombeyanus, 41:327, 43:321–332
Plegadis chihi, 38:60, 38:61, 38:63, 43:497
Pleochaetis exilis, 46:94, 46:95
Pleoroxus hamulatus, 40:323
Plethodon
cinereus, 43:2
glutinosus, 38:36, 38:39
jordani, 43:2
ouachitae, 38:36, 38:39
serratus, 43:1–5
teyahalee, 43:2
vandykei, 43:2
vehiculum, 43:2
Plethodontidae, 37:315–316, 38:36–42, 41:111–115, 43:1, 43:7
Pleurobema
coccineum, 41:325, 41:326
cordatum, 41:326
pyramidatum, 41:325–327
Pleurochaete squarrosa, 45:228
Pleurocoronis pluriseta, 46:5
Pleuronectes vetulus, 38:221
Pleuronectidae, 38:221
Pleuronichthys verticalis, 38:220, 38:221
Pleurosira laevis, 46:205
Pliocercus
bicolor, 46:115
dimidiatus, 46:114
elapoides, 40:122, 46:115
euryzonus, 46:114, 46:115
psychoides, 46:114–116
Plionycteris, 38:117
trusselli, 38:111
Pluchea
odorata, 45:411, 45:415, 45:416
sericea, 43:116, 43:426
Plumaginaceae, 45:442
Plumeria rubra, 43:34, 43:39
Plumiperla diversa, 39:251
Plusaetis equatoris, 46:95
Pluvialis
dominica, 37:87
squatarola, 37:87, 37:400
Ptychocheilus lucius, 41:378
Poa, 41:55, 43:208, 43:450, 46:286
arida, 44:437
compressa, 46:285, 46:377
fendleriana, 46:285, 46:287, 46:291, 46:292
nervosa, 43:211
pratensis, 37:299, 40:137, 46:285, 46:377
Poaceae, 41:209, 41:214, 41:462, 42:194–200, 43:74, 44:213–214, 45:95, 45:431, 45:436, 45:440, 45:442, 46:283–285
Poanes taxiles, 44:376–378
Pocket gopher herbivory and mortality of ocotillo on stream terrace, bajada, and hillside sites in the Colorado Desert, southern California, George W. Cox and Jodee Hunt, 39:364–370
Podarcis muralis, 42:346
Podiceps, 39:186, 39:287
nigricollis, 37:400, 38:61, 38:63, 39:287
Podicipedidae, 38:61, 42:225
Podilymbus podiceps, 37:400
Podmosta delicatula, 39:251
Podocnemis unifilis, 40:156
Podophyllum peltatum, 45:401
Podostemum ceratophyllum, 45:419
Podycipedidae, 41:290
Podylimbus podiceps, 42:225
Poecile
atricapillus, 43:279, 45:154, 45:157

hudsonicus, 45:157
sclateri, 43:282, 45:154
Poecilia
elongata, 45:516, 45:520
latipinna, 37:16–21, 37:262–264, 41:75
mexicana, 39:192, 43:118, 43:119, 44:168
orri, 44:168
petenensis, 44:168, 44:170
reticulata, 46:103
velifera, 44:168, 44:170
Poeciliidae, 37:140, 38:370, 40:316, 41:67–69, 42:265, 42:283, 42:287, 44:168, 45:517
Poeciliopsis
elongata, 45:520
occidentalis, 38:370, 38:372, 45:516
Poecilochroa, 45:462
Poecilopompilus mixtus, 43:253
Poecilus chalcites, 45:463
Pogany, Gilbert, see Allred, Sylvester, and —
Pogogyne nudiuscula, 38:390
Poganichthys
ciscoides, 38:220
macrolepidotus, 38:218
Pogonomyrex barbatus, 42:351
Pogonomyrmex, 42:359, 42:361, 45:177, 45:448, 46:175, 46:221, 46:222, 46:384
badius, 38:288
barbatus, 37:380, 37:383, 37:431, 37:432, 38:150–153, 44:379, 46:397, 46:400
maricopa, 46:386
occidentalis, 38:286–289, 44:102, 44:281, 44:379–382, 44:382–384, 45:465, 46:209–213
owyheei, 38:288
Pogonomyrmex occidentalis (Hymenoptera: Formicidae) nest-sites by tenebrionid beetles (Coleoptera: Tenebrionidae) for oviposition and thermoregulation in a temperate grassland, use of, Nancy E. McIntyre, 44:379–382
Pogue, Darrell W., and William A. Carter, Breeding biology of secondary cavity-nesting birds in Oklahoma, 40:167–173
Polaco, Oscar J., and Ana Fabiola Guzmán, Archaeological occurrence of the meadow vole, Microtus pennsylvanicus, in Chihuahua, México, 42:101–102
Polaco, Oscar J., see Lyons, John, —
Polechla, Paul J., Jr., see Fagerlund, Richard A., —
Polemoniaceae, 38:390, 43:430, 43:431
Polemonium pulcherrimum, 43:208, 43:211
Polhemus, John T., see Sites, Robert W., and —
Poliomintha incana, 44:195
Polioptila
caerulea, 42:227, 43:453, 43:456
melanura, 38:46, 40:357, 42:227
Poliptila caerulea, 37:389
Polistes, 39:381, 40:162
Polites themistocles, 44:376–378
Pollination biology and the relative importance of nocturnal and diurnal pollinators in three species of Sonoran Desert columnar cacti, Theodore H. Fleming, Merlin D. Tuttle, and Margaret A. Horner, 41:257–269
Pollination biology of *Abronia macrocarpa* (Nyctaginaceae), an endangered Texas species, Paula S. Williamson, Lisa Muliani, and Gena K. Janssen, 39:336–341
Pollination biology of *Coleogyne ramosissima* (Rosaceae), Burton K. Pendleton and Rosemary L. Pendleton, 43:376–380
Pollination biology of *Hesperaloe parviflora*, Olle Pellmyr and Elise J. Augenstein, 42:182–187
Polyarthra dolichoptera, 45:369
Polyborus plancus, 41:188
Polycentropodidae, 38:21, 38:22, 44:24
Polycentropus centralis, 38:21
Polychridae, 43:6
Polydesmida, 40:56–61
Polydesmidae, 45:359, 45:360
Polygala
alba, 44:266, 45:92, 45:93, 45:406, 45:435, 45:442
verticillata, 44:436
Polygalaceae, 45:442
Polygenis
guyni, 46:96
martinez-baezi, 46:96
Polygonella americana, 45:407
Polygonia zephyrus, 44:376–378
Polygonum, 37:206–208, 38:96, 38:169, 42:318, 44:438
amphibium, 45:416, 45:417, 45:419
bicorne, 44:438, 44:440, 44:443
hydropiperoides, 45:408, 45:411, 45:415, 45:417–419
lapathifolium, 45:415, 45:417, 45:418
pensylvanicum, 39:144, 45:415, 45:417, 45:418
Polygyne fire ant invasion on native ants of a blackland prairie in Texas, effects of, John R. Morris and Kenneth L. Steigman, 38:136–140
Polymeris basalis, 39:339
Polymitarcyidae, 38:264, 38:268, 39:61
Polymnia canadensis, 45:410
Polymorphidae, 42:234
Polymorphus, 39:204, 39:205
acutis, 40:326
Polyodon spathula, 45:133–140
Polyplectropus, 44:24
Polypogon
monospeliensis, 45:414, 45:415, 45:420
monspeliensis, 40:394, 40:396, 40:401, 40:403
Polypremum procumbens, 45:103
Polytrichum commune, 45:388, 45:390, 45:416
Pomacea, 37:194
Pomoxis, 37:358, 46:215
annularis, 37:142, 37:163, 37:262–264, 38:12, 38:246–251, 39:228, 39:233, 41:301, 41:302, 42:283, 45:279
nigromaculatus, 37:142, 38:364, 42:283, 46:315, 46:316
Pompilidae, 43:249–255
Pompilus tlahuicanus, 43:253
Ponderosa pines and Abert squirrel herbivory, characteristics of, W. Sylvester Allred and William S. Gaud, 39:89–90
Ponderosae, 41:409–418
Pontederia cordata, 45:416
Pontia protodice, 44:378
Poocetes gramineus, 42:227
Pooecetes gramineus, 37:73, 37:389, 40:99, 42:140, 43:456, 44:486
Poplus fremontii, 42:319
Population changes in bats from central Arizona: 1972 and 1997, Thomas J. O'Shea and Terry A. Vaughan, 44:495–500
Population characteristics of red-tailed hawks wintering on tallgrass prairies in Oklahoma, James W. Lish and Lurinda J. Burge, 40:174–179
Population declines of the native frog, *Rana muscosa*, in Sequoia and Kings Canyon national parks, California, David F. Bradford, David M. Graber, and Farinaz Tabatabai, 39:323–327
Population dynamics and ecology of Virginia opossums in southern Texas, Stanley D. Gehrt, Daniel E. Clark, and Erik K. Fritzell, 42:170–176
Population dynamics of *Sceloporus grammicus* (Sauria: Phrynosomatidae) at Durango, Mexico, Alfredo Ortega-Rubio, Robert Barbault, and Gonzalo Halffter, 44:64–72
Population dynamics of small mammals in an oak woodland-grassland-chaparral habitat mosaic, Edward J. Heske, Daniel L. Rosenblatt, and Derrick W. Sugg, 42:1–12
Population dynamics of the rare orchid, *Spiranthes delitescens*, Mitchel P. McClaran and Peter C. Sundt, 37:299–303
Population estimates, movements, and size structure of the endangered Quitobaquito pupfish, *Cyprinodon*

macularius eremus, Marlis R. Douglas, Michael E. Douglas, and Patrick C. Brunner, 46:141–150
Population genetic structure of Tecate cypress (Cupressaceae), Harold D. Truesdale and Leroy R. McClenaghan, Jr., 43:363–373
Population genetics of Mexican *Drosophila*. IX. East-west distribution of inversion polymorphism in *Drosophila pseudoobscura*, Judith Guzman, Olga Olvera, Ma. Esther de la Rosa, and Victor M. Salceda, 38: 52–55
Population of white-collared seedeaters, *Sporophila torqueola* (Passeriformes: Emberizidae) along the Rio Grande of Texas, discovery of a second, Marc C. Woodin, Mary K. Skoruppa, Gene W. Blacklock, and Graham C. Hickman, 44:535–538
Population structure and habitat use in Neosho madtom (*Noturus placidus*), Angela G. Bulger and David R. Edds, 46:8–15
Population structure in the Ouachita Mountain dusky salamander, *Desmognathus brimleyorum* (Caudata: Plethodontidae), Alvan A. Karlin, Sheldon I. Guttman, and D. Bruce Means, 38:36–42
Population trends of migratory landbirds along the middle Rio Grande, Wang Yong and Deborah M. Finch, 42:137–147
Populations of mountain lion in Carlsbad Caverns and Guadalupe Mountains national parks, trends in, Louis A. Harveson, Bill Route, Fred Armstrong, Nova J. Silvy, and Michael E. Tewes, 44:490–494
Populus, 37:356, 38:10, 39:139, 39:230, 40:260–263, 40:265, 42:14, 42:127, 42:159, 42:356, 44:312, 44:341, 44: 343, 44:345, 44:458, 45:169, 45: 338, 46:192, 46:196, 46:197, 46:401
acuminata, 45:8
angustifolia, 41:137, 41:207–209, 41: 211, 44:123, 45:8, 45:9, 45:12, 45: 170
deltoides, 38:404, 40:131, 40:135, 42: 13, 42:155, 42:156, 44:256–260, 44: 278, 44:279, 44:399, 44:428–430, 44:431, 45:46, 45:402, 45:403, 45: 408, 45:409, 45:457, 46:377
deltoids, 46:312
fremonti, 45:268
fremontii, 39:26, 39:137–138, 40:259, 40:264, 40:406–409, 41:149, 41: 150, 41:207–211, 42:75, 42:138, 44: 226, 45:160, 45:170, 45:171, 46:63, 46:195, 46:199
grandidentata, 40:135
sargentii, 40:288, 41:49
tremuloides, 38:2, 39:364, 40:135, 41: 321, 41:322, 42:132, 42:446, 43: 208, 43:214, 43:243, 43:266, 44: 375, 44:405, 44:502, 45:39, 46:286
Porcellio laevis, 45:456, 45:460, 45:462
Porcellionidae, 45:462
Porichthys notatus, 38:221, 46:38
Porlieria angustifolia, 40:355, 43:196
Porrocaecum crassum, 40:326
Portulaca
mundula, 42:444
oleracea, 38:225
Portulacaceae, 37:223
Porzana carolina, 38:60, 38:61, 38:64
Posey, John C., see Baccus, John T., and —
Post, Diane M., and James E. Urban, Change in microbial populations from eastern woodrat caches, 38: 30–35
Post-breeding territoriality and foraging behavior in Costa's hummingbird (*Calypte costae*), Michael L. Avery and Charles van Riper, III, 38: 374–377
Posthodiplostomum minimum, 41:288–291
Potamogeton, 44:43
Potamogeton, 46:313
Potamanthidae, 39:61
Potamilus
capax, 41:325, 41:326
laevissima, 41:326
ohiensis, 41:325, 41:326, 42:334
purpuratus, 41:326, 41:327, 42:333, 42:334
Potamogeton, 41:463, 42:266, 42:319, 42: 501, 44:213, 44:443, 44:515, 46:231
diversifolius, 37:206, 37:208
nodosus, 45:419
pectinatus, 37:206, 39:371, 39:373, 45: 417–419
Potamyia flava, 38:21
Potentilla subviscosa, 46:286
Potomocypris unicaudata, 41:453, 41:454
Potos flavus, 41:457–458, 43:101–102
Pottia nevadensis, 45:231
Potts, Greg A., see Kopachena, Jeffrey G., —
Power, Paula, and Paul J. Fonteyn, Effects of oxygen concentration and substrate on seed germination and seedling growth of Texas wildrice (*Zizania texana*), 40:1–4
Power, Paula, Direct and indirect effects of floating vegetation mats on Texas wildrice (*Zizania texana*), 41:462–464
Power, Paula, Moisture, seeds, and reproductive failure in Texas wildrice (*Zizania texana*), 42:435–440
Power, Paula, see Fries, Joe N., and —
Prairie dog effects on plant community structure in southern mixed-grass prairie, Jake F. Weltzin, Steve L. Dowhower, and Rodney K. Heitschmidt, 42:251–258
Precipitation and desert bighorn sheep in the Mazatzal Mountains, Arizona, Ted McKinney, Thornton W. Smith, and Jonathan D. Hanna, 46:345–353
Precis cœnia, 39:142
Precopulatory behavior of yellow-billed cuckoos, additional observations on, Jennifer K. Wilson, 45:535–536
Predation by dipteran larvae on fairy shrimp (Crustacea: Anostraca) in Utah rock-pools, Tim B. Graham, 39:206–207
Predation by mountain lions on numbers and survivorship of a feral horse population, influence of, John W. Turner, Jr. and Michael L. Morrison, 46:183–190
Predation by nonnative fish on native fishes in the San Juan River, New Mexico and Utah, W. Howard Brandenburg and Keith B. Gido, 44:392–394
Predation by odonate nymphs on larval razorback suckers (*Xyrauchen texanus*) under laboratory conditions, Michael J. Horn, Paul C. Marsh, Gordon Mueller, and Tom Burke, 39:371–374
Predation of Couch's spadefoot (*Scaphiopus couchii*) juveniles by ants (*Aphaenogaster cockerelli*), attempted, Kevin E. Bonine, Gage H. Dayton, and Robin E. Jung, 46:104–106
Predation on *Corynorhinus townsendii* by *Rattus rattus*, Gary M. Fellers, 45: 524–527
Predation on *Crotalus willardi obscurus* in the Animas Mountains, New Mexico, observations of, Andrew T. Holycross, Larry K. Kamees, and Charles W. Painter, 46:363–364
Predation on fish larvae by adult red shiner, Yampa and Green rivers, Colorado, Jack B. Ruppert, Robert T. Muth, and Thomas P. Nesler, 38:397–399
Predation on velvet ants (Hymenoptera: Mutillidae) by Texas horned lizards (*Phrynosoma cornutum*), Donald G. Manley and Wade C. Sherbrooke, 46:221–222
Predator exclusion on rodent abundance in an Arizona semidesert grassland, effects of, Carl E. Bock and Jane H. Bock, 39:208–210
Predators of Chiricahua fox squirrels (*Sciurus nayaritensis chiricahuae*), potential, Mary C. Kneeland, John

L. Koprowski, and Michelle C. Corse, 40:340–342
Premolar of five species of *Dipodomys* and evidence for diphyly in the genus, characters of the upper, Walter W. Dalquest, John V. Grimes, and Frederick B. Stangl, Jr., 37:231–246
Prenolepis imparis, 37:432
Present and Quaternary gastropod faunas of the Franklin Mountains, El Paso County, Texas, additions to the, Richard D. Worthington and Artie L. Metcalf, 42:471–477
Prestwa montana, 37:417, 43:72, 43:74–77
Prevalence of double wing molt in free-living ruddy ducks, William L. Hohman, 41:195–198
Prey sizes of male and female northern goshawks, Clint W. Boal and R. William Mannan, 41:355–358
Prey use by mountain lions in southern Texas, Louis A. Harveson, Michael E. Tewes, Nova J. Silvy, and Jimmy Rutledge, 45:472–476
Price, Andrew H., see Garrett, Gary P., —
Priebe, Steve, see Szarek, Stan R., —
Primula sieboldii, 38:97
Primulaceae, 45:442
Priocnemis scitula, 43:253
Priodontes, 39:378
Prionitis pterocladina, 41:419
Prionopsis ciliata, 44:431, 44:432
Prionus, 40:162
Pristina, 44:515, 44:516
Pristinella jenkinae, 44:515, 44:516
Proarna bergi, 41:138
Problematic specimen of *Peromyscus* with an unusual karyotype, a, Steven A. Smith, Ira F. Greenbaum, and David J. Schmidly, 39:289–291
Proboscidea louisianica, 45:47
Procambarus, 38:390–393, 43:17
acutua, 38:392
acutus, 38:391, 38:392, 45:69–71
clarkii, 37:329, 38:391
dupratzi, 37:329
kensleyi, 37:328–330
regiomontanus, 38:391
simulans, 38:391
steigmani, 38:139
zonangulus, 37:329
Procellaria parkinsoni, 42:308
Procellariiformes, 42:302–311
Procellariiformes occurrence at the Salton Sea and Sonoran Desert, Michael A. Patten and Richard A. Minnich, 42:302–311
Proclaeon
album, 38:259
conturbatum, 38:259
ingens, 38:259
Procyon
lotor, 37:323, 37:325, 37:393, 38:142, 38:352, 38:404–406, 40:46, 40:154, 40:288, 40:415, 45:330, 45:335, 45:473
pigmaeus, 43:101
Procyonidae, 41:457–458, 43:101–102, 45:329
Prodipodomys, 37:231, 37:236, 37:237, 37:241, 37:244, 37:245
centralis, 37:238
griggsorum, 37:238
hibbardi, 37:238
idahoensis, 37:238
mascallensis, 37:234, 37:235
minor, 37:234, 37:238, 37:239
rexroadensis, 37:238
tiheni, 37:232, 37:235
Prodoxidae, 42:182
Productivity of endangered least terns (*Sterna antillarum athalassos*) below a hydropower and flood-control facility on the Arkansas River, David M. Leslie, Jr., G. Keith Wood, and Tracy S. Carter, 45:483–489
Progne subis, 37:386, 37:388, 37:389
Proheteromys, 45:491
Pronghorn home range relative to permanent water in southern New Mexico, F. Clemente, R. Valdez, J. L. Holechek, P. J. Zwank, and M. Cardenas, 40:38–41
Pronoctua typica, 42:499
Propst, David L., Amber L. Hobbes, and Terry L. Stroh, Distribution and notes on the biology of Zuni bluehead sucker, *Catostomus discobolus yarrowi*, in New Mexico, 46:158–170
Propst, David L., and Jerome A. Stefferud, Distribution and status of the Chihuahua chub (Teleostei: Cyprinidae: *Gila nigrescens*), with notes on its ecology and associated species, 39:224–234
Propst, David L., Jerome A. Stefferud, and Paul R. Turner, Conservation and status of Gila trout, *Oncorhynchus gilae*, 37:117–125
Propst, David L., see Stefferud, Jerome A., and —
Proserpinus clarkiae, 42:89
Prosimulium
magnum, 38:87
mixtum, 38:87
Prosopis, 38:77, 38:282, 39:137, 40:102, 40:261, 41:187, 42:203–205, 42:207, 42:208, 42:370, 43:116, 43:181, 43:234, 43:335, 44:12, 44:311, 44:312, 44:342, 44:479, 45:304, 46:6, 46:191, 46:240, 46:241, 46:332
articulata, 42:201, 42:202, 42:206
glandulosa, 37:73, 37:95, 37:213, 37:288, 37:430, 38:44, 38:48, 38:70, 38:151, 38:175, 38:199, 38:208, 38:224–235, 38:241, 38:310, 39:2, 39:27, 39:73, 39:119, 39:123, 39:292, 39:342, 39:345, 40:260, 40:262–265, 40:274, 40:355, 41:124, 41:137, 41:140, 41:184, 41:220, 41:239–247, 41:248, 41:258, 41:425, 41:427, 41:429, 41:441, 42:34, 42:202, 42:229, 42:252, 42:351, 43:54, 43:165, 43:166, 43:184, 43:199, 43:200, 43:267, 43:270, 43:275–277, 43:301, 43:313–316, 43:318, 43:426, 43:442, 43:450, 44:7, 44:401, 44:535, 45:31, 45:89, 45:314, 45:352, 45:391, 45:411, 45:444, 45:472, 46:1, 46:4, 46:5, 46:239, 46:250, 46:401
globosa, 46:245
juliflora, 37:114, 37:282, 37:283, 37:376, 38:72, 38:225, 38:346, 39:208, 39:306, 39:344, 40:415, 45:406, 46:195
laevigata, 42:224, 43:38, 43:42–44
pubescens, 40:260, 40:262–264, 43:426
reptans, 43:276, 43:277
velutina, 42:189, 43:155–157, 44:543, 46:82, 46:355
Prosopsis velutina, 46:382
Prostoma
graecense, 42:162–169
rubrum, 42:162, 42:163, 42:167
Prostoma graecense (Nemertea: Hoplonemertea) from southern Colorado, with observations on its feeding behavior and habitat, new record of, Jerry L. Cook and Scott J. Herrmann, 42:162–169
Proteocephalus, 44:523, 44:524
Protolophus singularis, 38:236–238
Protonotaria citrea, 45:163
Protoptila alexanderi, 38:19, 38:21, 38:23
Prunella vulgaris, 42:119
Prunus, 40:162, 41:55, 41:208, 41:209, 41:212, 41:213, 41:216, 42:156, 45:46, 46:195, 46:339
americana, 43:454
angustifolia, 44:407, 44:434, 44:436, 45:407, 45:409, 45:410, 45:412
gracilis, 45:409, 46:296
ilicifolia, 38:291, 38:292, 39:130, 39:134
mexicana, 45:401, 45:402, 45:407
persica, 39:92
serotina, 44:33, 44:427, 45:97, 45:400
virginiana, 38:292, 41:207, 42:127, 43:454, 45:39
Prymnesium parvum, 37:178–187
Psaltriparus minimus, 37:388, 37:389, 37:400, 37:401, 38:73, 40:88, 40:232, 41:261, 43:457
Psammaletes bigeloviae, 43:252
Psammisia, 46:403
Psammomys obesus, 42:490
Pseudosmodingium multifolium, 43:34

Pselaphidae, 44:508
Psephenidae, 37:170, 38:119–126, 41:70–72
Psephenus
arizonensis, 38:119, 38:120, 38:123–125
falli, 38:122
hervicki, 38:122
minckleyi, 38:125
montanus, 38:119–126
murvoshi, 38:125
oreshius, 38:119, 38:124, 38:125
texanus, 38:125
Pseudacris
clarkii, 43:8
crucifer, 43:6, 43:8
regilla, 39:323–327
triseriata, 42:214, 43:8
Pseudemys
concinna, 39:386, 39:387, 46:233, 46:364–370
nelsoni, 39:387
Pseudiron, 38:252
centralis, 38:259, 38:269
Pseudironidae, 38:259
Pseudoabutilon lozanii, 43:276, 43:277
Pseudocloeon
edmundsi, 38:255
parvulum, 38:255
turbidum, 38:254
Pseudocrossidium crinitum, 45:230
Pseudodiaptomidae, 43:259
Pseudoeurycea belli, 40:122
Pseudoficimia frontalis, 39:173, 39:174
Pseudois
nayaur, 40:147
schaeferi, 40:147
Pseudoleptodeira latifasciata, 39:173
Pseudoleskeella tectorum, 45:230
Pseudometapterus, 45:463
Pseudomethoca albicoma, 43:254
Pseudomodingium multifolium, 43:39
Pseudomonas fluorescens, 38:74, 38:75
Pseudomyrmex, 37:408
Pseudoplisus
californicus, 43:252
rufomaculatus, 43:252
smithii, 43:252
Pseudopomala brachyptera, 37:364
Pseudorca crassidens, 38:82, 41:283
Pseudoscorpionida, 44:138–147
Pseudoscorpionida (Syarinidae) from a cave in Arizona, a remarkable new genus and species of, William B. Muchmore, 41:145–148
Pseudosida, 40:323
Pseudosinella violenta, 44:143
Pseudotsuga, 45:62
macrocarpa, 38:290, 44:375
menziesii, 45:8, 45:9
menzesii, 44:341
menziesii, 37:188, 38:177, 40:340, 41:321, 42:99, 42:132, 42:133, 43:243, 43:266, 44:122, 44:446, 45:39, 45:171, 45:525, 46:63, 46:195, 46:199, 46:283, 46:286
taxifolia, 38:2
Psidium, 41:458
Psilocarya scirpoides, 42:118
Psilocarya scirpoides and a new record of *Eleocharis flavescens* (Cyperaceae) in Arkansas, first record of, Stephen A. Walker, 42:118
Psilochasmus oxyurus, 40:326
Psilochorus, 45:462
Psilostrophe villosa, 45:406
Psilotrema, 40:325, 40:326
Psittacidae, 44:508
Psocids (Insecta: Psocoptera) from Socorro Island, Revillagigedo Archipelago, Mexico, new, Alfonzo Neri Garcia Aldrete, 39:83–88
Psocoptera, 39:83–88
Psoloessa texana, 39:22
Psoralea, 38:286, 45:47
argophylla, 44:437
Psoralidium tenuiflorum, 44:433, 44:434, 44:437
Psorophora
confinnis, 42:261
discolor, 42:261
Psychodidae, 37:170, 42:332
Psychomyiidae, 37:171, 44:24
Psychrophila leptosepala, 43:208, 43:212, 43:213
Psyllipsocus ramburii, 44:143, 44:144, 44:146
Pterodroma
cookii, 42:304, 42:308
defilippiana, 42:304
externa, 42:308
phaeopygia, 42:308
pycrofti, 42:304
rostrata, 42:308
Pteronotus
davyi, 39:281, 40:32, 40:35, 40:37, 45:344, 45:345
gymnonotus, 45:345–347
parnellii, 38:81, 40:32, 40:35, 40:37, 44:113, 45:344, 45:345
Pteronura brasiliensis, 44:331
Pterostemon rotundifolius, 43:39
Pterourus
multicaudatus, 44:378
rutulus, 44:378
Pterygoneurum
ovatum, 45:230
subsessile, 45:230
Pterygoplichthys
anisitsi, 46:98–104
disjunctivus, 46:98, 46:100
multiradiatus, 46:98, 46:100–102
Ptiliidae, 45:464
Ptinidae, 37:107
Ptinus, 37:107
fur, 45:463
Ptomaphagus, 42:498
cocytus, 42:499
Ptychobranchus
occidentalis, 41:326, 41:327, 42:334
phaseolus, 41:326
Ptychocheilus
grandis, 38:218, 38:221, 44:296–310
lucius, 37:9, 38:362–369, 38:397, 41:161–168, 44:302, 44:384, 44:388, 44:393, 45:516, 45:520, 46:35, 46:312
oregonensis, 44:307
Ptychodiscus brevi, 37:178
Ptychohyla
euthysanota, 38:101
hypomykter, 38:101, 38:103, 38:104
leonhardschultzei, 38:101
macrotympanum, 38:101
merazi, 38:100–104
panchoi, 38:101
spinipollex, 38:100–104
Ptychoramphus aleuticus, 43:403, 43:404
Ptylogonatidae, 42:227
Puccinellia
maritima, 40:389
phryganodes, 40:389
Puccinellietea phryganodis, 40:388–391
Puccinellio, 40:395
festuciformis, 40:394, 40:403
maritimae, 40:393, 40:403
Puckette, William L., see Clark, Brenda S., —
Pueraria montana, 45:388, 45:409
Puffinus, 42:305
auricularis, 42:308
bulleri, 42:304, 42:308
creatopus, 42:307, 42:308
griseus, 42:304, 42:308, 43:403
l'herminieri, 43:403
lherminieri, 42:308
opisthomelas, 42:307, 42:308
pacificus, 42:304, 42:308
Pulex
irritans, 43:477, 43:478, 46:96
simulans, 43:147–150, 43:154, 43:478, 46:96
Pulicidae, 45:460, 45:465, 46:96
Pulmonata, 45:450–455
Puma concolor, 40:148–159, 40:226–227, 43:47, 44:97, 44:202, 44:328, 44:358, 44:490–494, 45:196–203, 45:333–338, 45:472–476, 46:76–80, 46:82, 46:129, 46:346
Puntelia bolliana, 45:172
Punzo, Fred, Intraspecific male aggression in *Arenotherus joshuaensis* Brookhart and Muma, and *Eremobates marathoni* Muma (Solifugae, Eremobatidae), 43:291–295
Punzo, Fred, Selective ingestion by *Eremobates marathoni* Muma (Arachnida, Solifugae: Eremobatidae), 43:296–299
Pupilla
blandi, 42:472, 42:473
sonorana, 42:472, 42:473

Pupillidae, 38:295
Pupoides
albilabris, 42:472–475
hordaceus, 42:472, 42:473
Purshia, 37:114, 43:125, 43:136, 43:378
glandulosa, 38:96, 43:138, 46:184
tridentata, 38:96, 38:97, 43:138, 43:377, 46:184
Pycanthemum albescens, 37:369
Pycnopsyche, 38:21, 38:22
Pyganodon grandis, 41:326, 41:327, 42:334
Pygophorus, 37:339
Pylodictis olivaris, 37:180–184, 37:262–264, 41:301, 41:302, 41:375–377, 42:268, 42:269, 42:282, 42:285, 45:279, 46:217
Pyralidae, 37:247, 37:248, 42:151, 44:24, 44:155, 44:213–214
Pyrgulopsis manantialis, 43:283
Pyrgus communis, 39:142, 44:378
Pyrhhalta, 37:108
Pyrocephalus
nana, 41:443
rubinus, 40:357, 41:443–444, 42:226
Pyrola
chlorantha, 43:209–211
rotundifolia, 43:212
Pyron, Mark, Caryn C. Vaughn, Matthew R. Winston, and Jimmie Pigg, Fish assemblage structure from 20 years of collections in the Kiamichi River, Oklahoma, 43:336–343
Pyron, Mark, see Taylor, Christopher M., —
Pyron, Mark, see Vaughn, Caryn C., —
Pyrrhopappus multicaulis, 40:271
Pyrrhula pyrrhula, 39:146

Quadrula
apiculata, 41:326, 41:327
forsheyi, 41:326
heros, 41:326
obliqua, 41:326
pustulosa, 41:326, 41:327, 42:333, 42:334, 43:321–332
quadrula, 41:326, 41:327, 42:334, 43:321–332
rubiginosa, 41:326
undata, 41:326
undulata, 41:326
Qualls, Charles W., Jr., see Sinclair, John A., —
Quedius, 37:106, 45:464
Quercus, 37:213, 37:317, 37:372, 37:434, 38:77–79, 38:404, 39:361, 39:378, 39:380, 41:207–209, 41:213, 41:216, 41:251, 42:2, 42:20, 42:119, 42:132, 42:156, 42:177, 42:324, 42:406, 43:132, 43:470, 44:11, 44:12, 44:65, 44:242, 44:341, 44:479, 44:491, 45:206, 45:329, 46:55, 46:191, 46:194, 46:196, 46:197, 46:240, 46:241, 46:250, 46:358, 46:362
affinis, 45:239
agrifolia, 37:293, 38:374, 39:355, 43:170–174, 45:509
alba, 44:427, 45:388, 45:390, 45:400–402, 45:405
albocincta, 39:179
arizonica, 38:2, 39:179, 40:186, 40:232, 40:340, 42:133, 44:1, 44:337, 46:62, 46:63, 46:195
arizonicus, 38:236
bicolor, 44:429
buckleyi, 44:31–41, 45:97, 45:390, 45:409
chihuahuaensis, 39:179
chrysolepis, 38:290–292
chuchiuchupensis, 39:179
crassifolia, 38:131
crassipies, 39:156
douglasii, 37:293, 39:166, 40:86, 43:170–174, 45:509
dumosa, 38:290, 39:258, 39:354, 39:355
dunnii, 46:63
durifolia, 42:133
eduardii, 40:228
emory, 39:181
emoryi, 39:179, 40:186, 40:232, 40:340, 44:1–5, 44:401, 44:403, 46:62, 46:63, 46:195, 46:248
falcata, 45:400, 45:401
fulva, 42:133
fusiformis, 42:441–444, 43:183–194, 44:31–41, 45:97, 45:105, 45:119, 45:390, 45:406
gambeli, 38:236
gambelii, 38:1–8, 40:180, 41:214, 41:229, 41:321, 42:472, 43:243, 43:458, 44:375, 44:376, 44:502, 45:8, 45:9, 45:39, 45:171, 45:406, 46:195, 46:199, 46:286, 46:363
gambellii, 37:318, 38:185
germana, 45:421, 45:424, 45:425, 45:427
glaucoides, 43:39, 44:458, 45:97
grisea, 38:132, 39:180, 41:212, 41:229, 45:8, 46:248
havardii, 37:288, 38:224–235, 39:96, 45:408, 46:239, 46:295–301
hypoleucoides, 39:180, 40:186, 40:340, 44:337, 45:171, 45:172, 46:62, 46:63, 46:195
ilex, 38:1, 38:5
incana, 45:388, 45:407
kelloggii, 38:65, 39:166
laurina, 44:458, 45:239
lobata, 37:293, 40:86, 43:170–174
lyrata, 44:538, 45:404, 45:535
macrocarpa, 38:329, 40:135, 40:138, 43:174, 44:427, 44:429–431, 45:392, 45:401–404, 45:407, 46:179
magnolifolia, 43:39
marilandica, 37:327, 37:369, 38:146, 38:275, 40:168, 44:407, 44:409, 44:428, 44:430, 44:441, 45:386, 45:387, 45:390, 45:391, 45:401, 45:402, 45:405–407
muehlenbergii, 38:329, 44:430, 45:388, 45:390, 45:400–404
muhlenbergii, 37:369, 46:179
nigra, 42:104, 45:403–405
nuttallii, 44:538, 45:535
oblongifolia, 37:376, 39:179, 46:195
palustris, 44:428, 45:404
phellos, 39:144, 45:403–405
polymorpha, 44:405
polymorphay, 44:458
potosina, 41:271
prinoides, 44:428, 44:430
pubescens, 38:5
pungens, 38:142, 40:428, 42:444, 44:7
reticulata, 40:186, 45:171, 45:172
robur, 38:1
rubra, 42:106, 43:174, 44:427, 44:429, 45:400, 45:401, 45:403–405
rugosa, 39:180, 42:133
rysophylla, 44:405
santaclarensis, 39:179
sartorii, 44:458
sebifera, 43:39
shumardii, 44:428, 44:429, 45:387, 45:400–405
sideroxyla, 42:133
sinuata, 45:386, 45:390, 45:409
stellata, 37:327, 38:146, 38:275, 40:168, 43:184, 44:33, 44:428, 44:430, 44:441, 45:386–388, 45:390, 45:391, 45:400–402, 45:405–407, 46:396
texana, 45:402
tinkhamii, 41:271
tomentella, 45:509
toumeyi, 46:195
trilobata, 45:406
turbinella, 38:176, 38:185, 39:306, 45:444
urbani, 38:131
velutina, 37:369, 44:427, 44:428, 45:400, 45:401, 45:405
virginiana, 37:204, 38:141–142, 40:274, 41:218, 42:266, 42:356, 44:7, 45:435, 45:438, 45:439, 45:441
virginianus, 45:31
wislizenii, 38:290, 38:292, 40:86
Quijada-Mascareñas, Adrián, Feeding and foraging of *Callisaurus draconoides* (Sauria: Phrynosomatidae) in the intertidal zone of coastal Sonora, 37:311–314
Quiscalus
mexicanus, 37:94, 37:389, 38:60, 38:63, 38:64, 40:358, 42:227, 43:497
quiscula, 43:456, 44:486
Quistadrilus multisetosus, 44:515, 44:516
Qurecus, 42:403, 42:405

R. cynosbati, 45:410

Rabbit herbivory and its effect on clade, flower and fruit production of *Opuntia violacea* var. *macrocentra* (Cactaceae) in the northern Chihuahuan Desert, New Mexico, M. T. Hoffman, C. D. James, G. I. H. Kerley, and W. G. Whitford, 38: 309–315
Rabdotus durangoanus, 42:472–474
Rabe, Michael J., Melissa S. Siders, C. Richard Miller, and Tim K. Snow, Long foraging distance for a spotted bat (*Euderma maculatum*) in northern Arizona, 43:266–269
Rabe, Michael J., see Morrell, Thomas E., —
Rabinowitz, Alan R., The present status of jaguars (*Panthera onca*) in the southwestern United States, 44: 96–100
Raccoons during flooding in eastern Kansas, locations of, Stanley D. Gehrt, Lloyd B. Fox, and Dwight L. Spencer, 38:404–406
Radiocentrum ferrissi, 42:472, 42:473
Rain-harvesting behavior of a free-ranging desert horned lizard (*Phrynosoma platyrhinos*), Charles C. Peterson, 43:391–394
Rainwater, Thomas R., see Platt, Steven G., —
Raitt, Ralph J., see Naranjo, Luis G., and —
Rallidae, 38:61, 42:225
Ralls, Katherine, see White, P. J., —
Rallus
limicola, 38:60, 38:61, 38:64
longirostris, 45:261
Ramalina, 39:166
Ramírez B., Patricia, Atahualpa E. Desucre-Medrano, Adolfo G. Navarro S., Pedro J. Romo O., and Hugo J. Castro, Winter specimen of the common loon (*Gavia immer*) from the state of Hidalgo, Mexico, 39: 394–395
Ramírez-Bautista, Aurelio, and Laurie J. Vitt, Reproductive biology of *Urosaurus bicarinatus* (Sauria: Phrynosomatidae) from a tropical dry forest of Mexico, 43:381–390
Ramírez-Bautista, Aurelio, Louis J. Guillette, Jr., Guadalupe Gutiérrez-Mayen, and Zeferino Uribe-Peña, Reproductive biology of the lizard *Eumeces copei* (Lacertilia, Scincidae) from the Eje Neovolcanico, Mexico, 41:103–110
Ramírez-Pulido, José, Cristóbal Galindo-Galindo, Alondra Castro-Campillo, Arturo Salame-Méndez, and Miguel Angel Armella, Colony size fluctuation of *Anoura geoffroyi* (Chiroptera: Phyllostomidae) and temperature characterization in a Mexican cave, 46:358–362
Ramírez-Pulido, José, Miguel A. Armella, and Alondra Castro-Campillo, Reproductive patterns of three Neotropical bats (Chiroptera: Phyllostomidae) in Guerrero, Mexico, 38:24–29
Ramotnik, Cynthia A., First record of the round-tailed horned lizard, *Phrynosoma modestum*, in Colorado, 43:498–499
Ramphocaenus rufiventris, 43:232
Ramphocelus passerinii, 43:232
Ramphotyphlops braminus, 39:172
Rana
areolata, 42:210–217
berlandieri, 40:113
blairi, 42:214, 45:272, 45:362–366
catesbeiana, 40:112, 40:113, 43:8, 43: 14, 45:268, 45:271, 45:364
chiricahuensis, 45:272
clamitans, 40:113, 43:8, 45:364
farreri, 41:41
magnaocularis, 41:41
magnocularis, 45:270, 45:271
megapoda, 41:35–42
megapodia, 41:36
montezumae, 41:41, 41:42
muscosa, 39:323–327
neovolcanica, 41:40, 41:41
palustris, 40:111–116, 45:364
pipiens, 40:113, 41:41, 44:527–530, 45:268, 45:364
septentrionalis, 40:113
sphenocephala, 40:113, 43:8
sylvatica, 40:113, 45:364, 46:110
tarahumarae, 41:41
temporaria, 46:110
trilobata, 41:35, 41:42
utricularia, 40:112
yavapaiensis, 44:527, 44:528, 45:267–273
Randia, 44:458
laetevirens, 41:436
rhagocarpa, 43:276, 43:277
Ranidae, 40:111–116, 41:35–42, 42: 210–217, 43:8, 45:362–366
Ranthus, 43:81
Ranunculaceae, 38:390, 46:401, 46:402
Ranunculus
longirostris, 45:405, 45:418
macranthus, 37:299
repens, 44:91
Raphanus, 42:410
Raphidophoridae, 45:463
Rappole, John H., see Swanson, David A., and —
Rare plants of the Southwest: forward, O. W. Van Auken and Paula S. Williamson, 42:367–368
Rarity of oak saplings in savannas and woodlands of the eastern Edwards Plateau, Texas, F. Leland Russell and Norma L. Fowler, 44:31–41
Rathbun, Galen B., Brian B. Hatfield, and Thomas G. Murphey, Status of translocated sea otters at San Nicolas Island, California, 45:322–328
Rathbun, Galen B., Nancy Siepel, and Dan Holland, Nesting behavior and movements of western pond turtles, *Clemmys marmorata*, 37: 319–324
Ratibida
columnifera, 44:435–437, 45:413, 46: 173
pinnata, 44:433
tagetes, 45:413, 45:458
Rattus, 39:295, 41:188, 41:460
norvegicus, 45:526
rattus, 43:98, 44:190, 45:525, 45:526
Rautenstrauch, Kurt R., and Thomas P. O'Farrell, Relative abundance of desert tortoises on the Nevada Test Site, 43:407–411
Ray, James D., and Harvey W. Miller, A concentration of small Canada geese in an urban setting at Lubbock, Texas, 42:68–73
Re-discovery of *Brachyrhaphis punctifer* (Poeciliidae), the, Camille L. Mojica, 41:67–69
Reassessment of the nominal species of false coral snakes,
Pliocercus psychoides (Reptilia: Serpentes), Hobart M. Smith and David Chiszar, 46:114–116
Reat, Erin P., see Beheler, Amanda S., —
Recolonization of wildlife on a coal strip-mine in northwestern New Mexico, Terry T. Ireland, Gale L. Wolters, and Sanford D. Schemnitz, 39:53–57
Recovery of Pecos River fishes from a red tide fish kill, Kevin Rhodes and Clark Hubbs, 37:178–187
Recurvirostra americana, 37:397, 38:61, 41:348–354, 42:225, 45:523–524
Recurvirostridae, 38:61, 41:348, 42:225
Red imported fire ant (*Solenopsis invicta*) on reproductive success of barn swallows (*Hirundo rustica*) in Northeast Texas, effects of the, Jeffrey G. Kopachena, Anthony J. Buckley, and Greg A. Potts, 45: 477–482
Red shiner (*Cyprinella lutrensis*) on Red River pupfish (*Cyprinodon rubrofluviatilis*), effects of, Keith B. Gido, Jacob F. Schaefer, Kirsten Work, Philip W. Lienesch, Edie Marsh-Matthews, and William J. Matthews, 44:287–295
Red-breasted mergansers, *Mergus serra-*

tor, nesting in southern Texas, Jeffery R. Rupert and Timothy Brush, 41:199–200
Redescription and rediagnosis of *Tantilla shawi* (Serpentes: Colubridae) from the Sierra Madre Oriental of Mexico, Jonathan A. Campbell, José L. Camarillo R., and Paul C. Ustach, 40:120–123
Redfearn, Todd R., see Haner, Thomas W., —
Redfieldia flexuosa, 40:134
Redhead duck behavior on lower Laguna Madre and adjacent ponds of southern Texas, Christine A. Mitchell, Thomas W. Custer, and Phillip J. Zwank, 37:65–72
Reduviidae, 45:463
Regional priorities for conservation of rare species in Texas, David D. Diamond, C. Diane True, and Kan He, 42:400–408
Regulus
calendula, 37:388, 38:72–73, 40:80, 42:140, 42:227, 45:154, 46:116–118
satrapa, 38:72, 45:154
Rehfeldt, Gerald E., Boyd C. Wilson, Stephen P. Wells, and Richard M. Jeffers, Phytogeographic, taxonomic, and genetic implications of phenotypic variation in the *Ponderosae* of the Southwest, 41:409–418
Reichenbachia, 45:464
Reichling, Steven B., and Rick C. West, A new species of tarantula spider (Araneae, Mygalomorphae, Theraphosidae) from the Cayo District of Belize, 45:128–132
Reichling, Steven B., Nearest neighbor relationships among theraphosid spiders in Belize, 44:518–521
Reid, Fiona A., and Catherine A. Langtimm, Distributional and natural history notes for selected mammals from Costa Rica, 38:299–302
Reid, Fiona A., see Engstrom, Mark D., —
Reid, J. W., and Suárez-Morales, E., and —
Reinking, Dan L., see Hendricks, Paul, and ———
Reithrodon auritus, 44:324, 44:331
Reithrodontomys, 39:8, 40:162, 41:190, 43:53–55
fulvescens, 37:58, 37:61, 37:62, 37:213, 38:285, 38:394, 39:360–362, 41:54–59, 43:98, 44:408, 44:409, 46:340–342
gracilis, 38:300, 38:301
humulis, 39:360, 39:361
megalotis, 37:58, 39:3, 39:5, 39:131–133, 39:209, 39:257, 39:292, 39:293, 41:97, 41:132, 41:193, 42:3, 42:5, 42:6, 42:10, 42:15, 42:16, 43:148, 45:45, 45:48, 45:50, 45:51, 45:61–64, 45:206, 46:68, 46:334
mexicanus, 38:301, 41:97
montanus, 37:58, 38:285, 39:3, 39:5, 41:193, 44:101, 45:45, 45:48, 45:50
raviventris, 44:348–353
sumichrasti, 37:92
Remizidae, 42:226
Remote sensing and spatial information technologies to map sabal palm in the Lower Rio Grande Valley of Texas, using, James H. Everitt, Frank W. Judd, David E. Escobar, Mario A. Alaniz, Michael R. Davis, and William MacWhorter, 41:218–226
Removal of piñon seeds by birds and rodents in San Luis Potosí, México, Ezequiel Martínez-Delgado, Eric Mellink, Juan Rogelio Aguirre-Rivera, and Edmundo García-Moya, 41:270–274
Repatriation of boreal toad (*Bufo boreas*) eggs, metamorphs, and adults in Rocky Mountain National Park, experimental, Erin Muths, Therese L. Johnson, and Paul Stephen Corn, 46:106–113
Reproduction by humpback chub in a warm spring of the Colorado River in Grand Canyon, Arizona, evidence of, Richard A. Valdez and William J. Masslich, 44:384–387
Reproduction in Gadow's spiny lizard, *Sceloporus gadovae* (Phrynosomatidae), from arid tropical Mexico, Julio A. Lemos-Espinal, Geoffrey R. Smith, and Royce E. Ballinger, 44:57–63
Reproduction in the desert massasauga, *Sistrurus catenatus edwardsii*, in Arizona and Colorado, Stephen R. Goldberg and Andrew T. Holycross, 44:531–535
Reproduction in the ground snake, *Sonora semiannulata* (Serpentes: Colubridae), from Arizona, Stephen R. Goldberg, 46:387–391
Reproduction in the lyre snake, *Trimorphodon biscutatus* (Colubridae), from Arizona, Stephen R. Goldberg, 40:334–335
Reproduction in the Sonoran whipsnake, *Masticophis bilineatus* (Serpentes: Colubridae), Stephen R. Goldberg, 43:412–415
Reproduction in the western patchnose snake, *Salvadora hexalepis*, and the mountain patchnose snake, *Salvadora grahamiae* (Colubridae), from Arizona, Stephen R. Goldberg, 40:119–120
Reproduction of the plains pocket gopher (*Geomys bursarius*) in Missouri, Richard M. Pitts and Jerry R. Choate, 42:238–240
Reproduction of the river cooter, *Pseudemys concinna*, in Arkansas and across its range, John B. Iverson, 46:364–370
Reproductive behavior of captive *Tadarida brasiliensis mexicana* (Chiroptera: Molossidae), observations on the, Barbara French and Amanda Lollar, 43:484–490
Reproductive biology of the lizard *Eumeces copei* (Lacertilia, Scincidae) from the Eje Neovolcanico, Mexico, Aurelio Ramirez-Bautista, Louis J. Guillette, Jr., Guadalupe Gutierrez-Mayen, and Zeferino Uribe-Peña, 41:103–110
Reproductive biology of the Rio Grande chub, *Gila pandora* (Teleostomi: Cypriniformes), in a montane stream, New Mexico, John N. Rinne, 40:107–110
Reproductive biology of the Rio Grande sucker, *Catostomus plebeius* (Cypriniformes), in a montane stream, New Mexico, John N. Rinne, 40:237–241
Reproductive biology of *Urosaurus bicarinatus* (Sauria: Phrynosomatidae) from a tropical dry forest of Mexico, Aurelio Ramírez-Bautista and Laurie J. Vitt, 43:381–390
Reproductive characteristics of a green iguana (*Iguana iguana*) population on the west coast of Mexico, Javier Alvarado, Laura Ibarra, Ireri Suazo, Gerardo Rodríguez, and Rasalba Zamora, 40:234–237
Reproductive characteristics of Merriam's pocket gopher (*Pappogeomys merriami merriami*) from Huitzilac, Morelos, Mexico (Rodentia: Geomyidae), Beatriz Villa-C. and Richard M. Engeman, 39:156–159
Reproductive characteristics of the hispid pocket gopher (*Orthogeomys hispidus hispidus*) in Veracruz, Mexico, Beatriz Villa-Cornejo and Richard M. Engeman, 40:411–414
Reproductive cycle of *Notropis hubbsi* (bluehead shiner) in southeastern Oklahoma, notes on the, Christopher M. Taylor and Steven M. Norris, 37:89–92
Reproductive failure of endangered southwestern willow flycatchers on the Rio Grande, New Mexico, Kristine Johnson, Patricia Mehlhop, Charles Black, and Kim Score, 44:226–231
Reproductive patterns of three Neotropical bats (Chiroptera: Phyllostomidae) in Guerrero, Mexico,

José Ramírez-Pulido, Miguel A. Armella, and Alondra Castro-Campillo, 38:24–29
Reptiles of Morelos, Mexico, and their distribution in relation to vegetation types, list of, Rubén Castro-Franco and María Guadalupe Bustos Zagal, 39:171–175
Reptilia, 42:290–301, 43:374–375, 45:358–361, 46:114–116
Respiratory responses of grass carp, *Ctenopharyngodon idella* (Cyprinidae) to parasitic infection by *Centrocestus formosanus* (Digenea), Guillermina Alcaraz, Gerardo Pérez-Ponce de León, Luis Garcia P., Virginia León-Règagnon, and Cecilia Vanegas, 44:222–226
Response of birds to wildfire in native versus exotic Arizona grassland, Carl E. Bock and Jane H. Bock, 37:73–81
Responses of mice to fluctuating habitat quality I. Patterns from a long-term observational study, Michael L. Morrison and Linnea S. Hall, 43:123–136
Responses of mice to fluctuating habitat quality II. A supplementation experiment, Linnea S. Hall and Michael L. Morrison, 43:137–146
Restricted diet of the common map turtle *Graptemys geographica* in a Missouri stream, Don White, Jr. and Don Moll, 37:317–318
Resurrection of *Tantilla triseriata* (Reptilia: Serpentes) of Mexico, Hobart M. Smith, David Chiszar, and Frank van Breukelen, 43:374–375
Reticulitermes, 45:463
Retinometra macracanthos, 39:204, 39:205
Reverchonia, 46:241
Revision del genero *Tylosis* (Coleoptera: Cerambycidae), Luz Isela Valdez Sanchez y William P. MacKay, 38:241–245
Revueltas-Valle, Emilio, see Torres-Orozco B., Roberto, and —
Rhabdias ranae, 40:114, 40:328, 40:329, 45:362–365, 46:223–225, 46:228, 46:229
Rhacochilus
toxotes, 38:221
vacca, 38:221
Rhadinaea
decorata, 40:122
godmani, 46:113
hesperia, 39:173
lachrymans, 46:113–114
laureata, 39:173
taeniata, 39:173
Rhadine, 37:106, 37:113
Rhadinopsylla
fraternal, 46:95
multidentaculata, 46:95
sectilis, 46:95
Rhagidia, 42:499
Rhagovelia, 44:25
Rhamdia guatemalensis, 44:168
Rhamnaceae, 43:42, 46:286
Rhamnus, 44:406, 46:195
betulaefolia, 45:172, 46:195
californica, 38:291, 40:86, 43:190, 45:401–404, 45:425
crocea, 38:374
Rhamphotyphlops braminus, 39:171
Rheomys raptor, 38:301
Rhinichthys
cataractae, 40:240, 42:282, 42:285, 44:152
osculus, 37:122, 38:397, 39:228, 39:233, 41:378, 41:379, 43:115, 43:116, 43:119, 43:121, 44:297, 44:384, 44:388, 44:391, 44:393, 46:160, 46:162, 46:315, 46:316
Rhinichthys osculus, 40:304
Rhinobatidae, 43:501–504
Rhinobatos
annulatus, 43:502
lentiginosus, 43:501–504
productus, 43:502
Rhinocheilus lecontei, 42:232–236, 43:443, 43:445
Rhinotermitidae, 45:463
Rhithrogena
doddsi, 38:262
elegantula, 38:260
flavianula, 38:262
hageni, 38:262, 38:269, 39:252
impersonata, 38:262
morrisoni, 38:262
plana, 38:262
robusta, 38:262
undulata, 38:262
vitta, 38:262
Rhizophora mangle, 38:169, 45:79
Rhizophoro mangle, 40:388–391
Rhizoprionodon terraenovae, 43:502
Rhizosolenia, 46:201
minima, 46:202, 46:205
Rhodes, Kevin, and Clark Hubbs, Recovery of Pecos River fishes from a red tide fish kill, 37:178–187
Rhodes, Olin E., Jr., see Beheler, Amanda S., —
Rhodes, Olin E., Jr., see Fedynich, Alan M., and —
Rhodostethia rosea, 37:400
Rhodotypos kerrioides, 38:96
Rhogessa, 38:117
aeneus, 40:34
parvula, 38:116
tumida, 38:81, 39:281, 40:34, 45:344
Rhoicosphenia curvata, 37:148–150, 37:152–154
Rhopalidae, 46:241
Rhopalodia
gibba, 46:205
gibberula, 37:151, 46:205
musculus, 46:205
Rhopalopsyllidae, 46:96
Rhus, 38:78, 44:337, 44:341, 46:339
aromatica, 43:454, 44:407, 44:432, 45:39, 45:40, 45:405–410, 45:412, 45:444
copallina, 44:428, 45:387, 45:400, 45:410, 45:412
diversiloba, 40:86
glabra, 40:137, 44:428, 44:436, 45:405, 45:407, 45:409, 45:410, 45:412, 45:414, 45:417
integrifolia, 39:355
microphylla, 37:387, 38:79, 39:292, 43:166
ovata, 38:291, 46:195
standleyi, 43:39
trilobata, 38:79, 40:186, 42:138, 42:481, 44:382, 45:172, 45:406
trilobita, 46:195
virens, 42:444, 43:39, 45:339
Rhyacophila, 39:252, 44:24
alberta, 39:251
brunnea, 39:251
coloradensis, 39:251
pellisa, 39:249, 39:251, 39:253, 39:254
Rhyacophilidae, 37:171, 39:251, 41:70, 42:151, 44:24
Rhynchophion flammipennis, 44:87–88
Rhynchopsitta terrisi, 41:270
Rhynchosia
americana, 45:434, 45:435, 45:441
minima, 45:433–435, 45:441
Rhynchospora colorata, 44:262, 44:266, 45:441
Rhypodillus brevicollis, 45:464
Ribble, David O., see Lechner, Katherine A., and —
Ribes, 45:39, 46:195, 46:286
aureum, 38:96
cereum, 44:502
curvatum, 45:410
lacustre, 43:212
roezlii, 38:278
Riccia sorocarpa, 45:231
Rice rat, *Oryzomys couesi peninsularis*, current status of the, Sergio Ticul Alvarez-Castañeda, 39:99–100
Richard, David M., see Hohman, William L., and —
Richardson, Linda R., and John R. Gold, Systematics of the *Cyprinella lutrensis* group (Cyprinidae) from the southwestern United States as inferred from variation of mitochondrial DNA, 44:49–56
Richardsonius balteatus, 38:397
Richerson, Jim V., see McClinton, Susan F., —
Richmondena cardinalis, 42:35
Rico-Gray, Victor, and Gerardo Castro, Effect of an ant-aphid interaction on the reproductive fitness of

Paullinia fuscecens (Sapindaceae), 41:434–440
Rico-Gray, Victor, see Serio-Silva, Juan C., and —
Riffle beetles (Coleoptera: Elmidae) in Death Valley National Park, California, additional records of, William D. Shepard and Doug Threloff, 42:496–497
Ringtail (*Bassariscus astutus*) in Oklahoma, occurrence of the, Jack D. Tyler and Wesley D. Webb, 37:202–205
Rinne, John N., Reproductive biology of the Rio Grande chub, *Gila pandora* (Teleostomi: Cypriniformes), in a montane stream, New Mexico, 40:107–110
Rinne, John N., Reproductive biology of the Rio Grande sucker, *Catostomus plebeius* (Cypriniformes), in a montane stream, New Mexico, 40: 237–241
Rios, Evelyn, see Alvarez-Castaneda, Sergio Ticul, —
Riparia riparia, 37:400
Riparian environmental quality by using butterflies and disturbance susceptibility scores, an assessment of, S. Mark Nelson and Douglas C. Andersen, 39:137–142
Riparian plant communities in the mountains of southeastern Arizona, Steven J. Danzer, Roy Jemison, and D. Phillip Guertin, 46:191–199
Rissler, Peter H., see Scoppettone, G. Gary, —
Ritzi, Christopher M., Utilization of cliff swallow (*Petrochelidon pyrrhonata*) nests in West Texas by cave myotis (*Myotis velifer*), 44:414–415
Rivulus tenuis, 44:168, 44:170
Roads on movements of small mammals, influence of, Bryon K. Clark, Brenda S. Clark, Lacrecia A. Johnson, and Michael T. Haynie, 46: 338–344
Roback, Jason F., see Hass, Christine C., and —
Robel, Robert J., and Kenneth E. Kemp, Winter mortality of northern bobwhites: effects of food plots and weather, 42:59–67
Robel, Robert J., and Lloyd B. Fox, Comparison of aerial and ground survey techniques to determine beaver colony densities in Kansas, 38:357–361
Robel, Robert J., Blake L. Henning, Kevin W. Johnson, Kenneth E. Kemp, and Kevin E. Church, Effects of seasonal disking on seed production and invertebrate biomass, 41:403–408
Roberson, Mary, and Daryl L. Moorhead, Consumption of three garden plants in West Texas by *Helix aspersa*, 44:90–93
Roberson, Mary, and Daryl L. Moorhead, Growth patterns and morphological features of juvenile *Helix aspersa* from West Texas, 44:93–96
Roberts, Heather R., Kenneth T. Wilkins, Jorge Flores, and Alberto Thompson-Gorozpe, Burrowing ecology of pocket gophers (Rodentia: Geomyidae) in Jalisco, Mexico, 42:323–327
Robertson, Michael S., and Kirk O. Winemiller, Diet and growth of smallmouth bass in the Devils River, Texas, 46:216–221
Robina
neomexicana, 46:195
pseudo-acacia, 42:127
Robinia, 42:356, 44:341
neomexicana, 40:186, 40:289, 41:49, 42:472, 44:502, 45:8, 45:172, 46: 199
pseudoacacia, 45:392, 45:407
Robinson, Anthony T., Dennis M. Kubly, Robert W. Clarkson, and Edward D. Creef, Factors limiting the distributions of native fishes in the Little Colorado River, Grand Canyon, Arizona, 41:378–387
Robison, Henry W., see Harp, George L., —
Rockwell, R. F., see Olvera, O., —
Rodent communities in native and exotic riparian vegetation in the middle Rio Grande Valley of central New Mexico, Lisa M. Ellis, Clifford S. Crawford, and Manuel C. Molles, Jr., 42:13–19
Rodent populations after a large wildfire in California chaparral and coastal sage scrub, Dylan W. Schwilk and Jon E. Keeley, 43:480–483
Rodentia, 37:1–8, 39:156–159, 41:189–190, 42:323–327, 44:109–112, 44: 240–241
Rodewald, Paul G., Two new breeding species of wood-warblers (Parulinae) in Arkansas, 42:106–107
Rodríguez-Almaraz, Gabino A., Mario A. Coronado-Magdaleno, and Ernesto Campos, Distribucion y notas ecologicas de los acociles (Cambaridae: *Procambarus*) del estado de Tamaulipas, Mexico, 38: 390–393
Rodríguez, Gerardo, see Alvarado, Javier, —
Rodríguez, María Luisa, y David Lazcano, Primer reporte de ácaro *Ophionyssus natricis* (Acarina: Macronyssidae) para México, 37:426
Rodríguez-Almaraz, Gabino A., and Antonio Leija-Tristan, Cladocerans (Brachiopoda: Anomopoda; Ctenopoda) of the Nuevo Leon state, Mexico, 40:322–324
Rodríguez-Almaraz, Gabino A., Jose A. Gonzalez-Aquilar, and Roberto Mendoza-Alfaro, Biological and ecological notes of *Palaemonetes suttkusi* (Crustacea: Palaemonidae) from Cuatro Cienegas Basin, Coahuila, Mexico, 42:501–503
Rodríguez-Meraz, Marcelo, see Ruiz-Campos, Gorgonio, y —
Roemer, Gary W., see Garcelon, David K., —
Rogers, Roland S., see McKinney, Ted, —
Rogowski, David L., see Lance, Richard F., and —
Rohwer, Frank C., see Johnson, William P., and —
Roisman, Rachel E., see Ho, Mengchi, —
Rojas Agil, Mara, Enrique Jurado, Gerardo Sanchez-Ramos, Luisa Trejo-Hernández, and Fernando Leal Ríos, Rapid viability loss in seeds of palmilla (*Chamaedorea radicalis* Mart.) from El Cielo Biosphere Reserve, 45:373–375
Rojas-Viloria, Alejandro, see Cervantes, Fernando A., —
Romaleidae, 46:207
Romero A., Ma. de Lourdes, see Sánchez H., Cornelio, —
Romero, Marjorie, see Solorzano, Alejandro, —
Roméro-Almaraz, María de Lourdes, see Sánchez-Hernández, Cornelio, —
Romo O., Pedro J., see Ramírez B., Patricia, —
Rooney, Robert F., III, see Faeth, Stanley H., and —
Root distribution patterns of common curlymesquite and sideoats grama on two Texas rangeland sites, C. K. Yoder, T. L. Thurow, D. H. Carlson, and B. L. Caesar, 40:273–280
Root, J. Jeffrey, Eric E. Jorgensen, and Stephen Demarais, Effects of a habitat boundary on small mammals associated with the White Sands dune complex, 44:193–198
Root, J. Jeffrey, Eric E. Jorgensen, and Stephen Demarais, Soil texture uses by sympatric kangaroo rats on the White Sands dune complex, 45:533–535

Rorippa sinuata, 44:437, 44:443
Rosa, 40:162, 41:207–209, 41:213, 41:216
arizonica, 44:502
arkansana, 40:137
carolina, 43:435
fendleri, 45:8
multiflora, 42:59
setigera, 45:410
woodsii, 41:212, 43:209, 43:210
Rosaceae, 37:92, 38:96, 39:34–39, 42:119–121, 43:376–380, 46:286
Rosaceeae, 41:209
Rosen, Philip C., see Sartorius, Shawn S., and —
Rosenblatt, Daniel L., see Heske, Edward J., —
Rosenstock, Steven S., see Wakeling, Brian F., —
Ross, Lisa M., see Dronen, Norman O., —
Roster, Douglas L., see Hohman, William L., —
Rotala ramosior, 42:118
Rotifera, 46:213–216
Rotifers from Mexico: new records in high altitude ponds, S. S. S. Sarma and M. Elías-Gutiérrez, 45:366–373
Round-tailed horned lizard, *Phrynosoma modestum*, in Colorado, first record of the, Cynthia A. Ramotnik, 43:498–499
Route, Bill, see Harveson, Louis A., —
Rowlands, Peter G., and Nancy J. Brian, A perimeter tracing method for estimating basal cover: monitoring the endangered sentry milk-vetch at Grand Canyon National Park, Arizona, 41:169–178
Rowlands, Peter G., Climatic factors and the distribution of woodland vegetation in the Southwest, 38:185–197
Rowley's palm pitviper, *Bothriechis rowleyi* (Serpentes: Viperidae), a Mexican relict, a new locality for, Ronald L. Gutberlet, Jr., 40:124–125
Rubiaceae, 41:436, 43:449, 45:442
Rubus, 38:291, 40:86, 40:87, 44:406, 45:233, 45:402, 45:410
ostryifolius, 45:412
strigosus, 44:375
Ruby-crowned kinglet (*Regulus calendula*) roosting in a verdin (*Auriparus flaviceps*) nest in winter, observation of a, Greg H. Farley, 38:72–73
Ruby-crowned kinglet impaled on greenbriar thorn, Clifford E. Shackelford and Julie K. Shackelford, 46:116–118
Rudbeckia
hirta, 40:137
lacinata, 44:375
missouriensis, 37:367–370, 44:442
Rudgers, Jennifer A., see Agrawal, Anurag A. —
Ruellia
coccinea, 43:74, 43:75
humilis, 45:413, 45:417
Ruiz-Campos, Gorgonio, Edwin P. Pister, and Guillermo A. Compean-Jimenez, Age and growth of Nelson's trout, Oncorhynchus mykiss nelsoni, from Arroyo San Rafael, Sierra San Pedro Martir, Baja California, Mexico, 42:74–85
Ruiz-Campos, Gorgonio, y Marcelo Rodríguez-Meraz, Notas ecologicas sobre la avifauna de Laguna El Rosario, Baja California, Mexico, 38:59–64
Ruiz-Campos, Gorgonio, y Patricia Cota-Serrano, Ecología alimenticia de la trucha arcoiris (*Oncorhynchus mykiss nelsoni*) del Arroyo San Rafael, Sierra San Pedro Mártir, Baja California, México, 37:166–177
Rumen characteristics of desert races of mountain sheep and desert mule deer, Paul R. Krausman, John D. Wehausen, Mark C. Wallace, and Richard C. Etchberger, 38:172–174
Rumex
altissimus, 45:415, 45:416
crispus, 44:349
hymenosepalus, 37:114
hymenosephalus, 43:48
Rumina decollata, 42:472, 42:474
Runck, Clay, and Dean W. Blinn, Seasonal diet of *Lepidomeda vittata*, a threatened cyprinid fish in Arizona, 38:157–159
Rupert, Jeffery R., and Timothy Brush, Red-breasted mergansers, *Mergus serrator*, nesting in southern Texas, 41:199–200
Rupicapra rupicapra, 40:147
Ruppert, Jack B., Robert T. Muth, and Thomas P. Nesler, Predation on fish larvae by adult red shiner, Yampa and Green rivers, Colorado, 38:397–399
Ruppia
maritima, 38:169, 39:264
occidentalis, 37:270, 37:271
Russell, F. Leland, and Norma L. Fowler, Rarity of oak saplings in savannas and woodlands of the eastern Edwards Plateau, Texas, 44:31–41
Rutaceae, 43:42
Ruthven, Donald C., III, James F. Gallagher, and David R. Synatzske, Effect of fire and grazing on forbs in the western South Texas Plains, 45:89–94
Rutledge, Jimmy, see Harveson, Louis A., —
Ryden, Dale W., and Lief A. Ahlm, Observations on the distribution and movements of Colorado squawfish, *Ptychocheilus lucius*, in the San Juan River, New Mexico, Colorado, and Utah, 41:161–168
Ryon, Thomas R., Summer nests of Preble's meadow jumping mouse, 46:376–378

Sabal
mexicana, 41:218–226
minor, 45:403
morrisiana, 38:80
texana, 41:219, 43:276
Sabatia
arenicola, 45:435, 45:441
campestris, 44:435, 45:435, 45:441
Saccopteryx bilineata, 39:281, 45:344
Sacks, Benjamin N., and Jennifer C. C. Neale, Does paternal care of pups benefit breeding female coyotes?, 46:121–126
Sagebrush on Gunnison sage grouse in southwestern Colorado, influence of changes in, Sara J. Oyler-McCance, Kenneth P. Burnham, and Clait E. Braun, 46:323–331
Sagittaria, 37:206, 37:208, 38:169, 38:391
latifolia, 38:166, 38:167, 44:440, 44:443, 45:418
longiloba, 44:440
platyphylla, 41:463
Sagittartia, 42:319
Sahley, Catherine T., Vertebrate pollination, fruit production, and pollen dispersal of *Stenocereus thurberi* (Cactaceae), 46:261–271
Salacia, 46:403
Salamander of the genus *Nototriton* (Caudata: Plethodontidae) from Montaña de Santa Bárbara, Honduras, a new species of, James R. McCranie and Larry David Wilson, 41:111–115
Salame-Méndez, Arturo, see Ramírez-Pulido, José, —
Salasphorus platycercus, 37:388
Salceda, Victor M., see Guzman, Judith, —
Salicaceae, 41:209, 42:159, 46:286
Salicaceae, 45:442
Salicornia, 40:401, 40:403, 41:350, 43:58
bigelovii, 37:22–27, 38:59, 38:169, 40:393, 40:399, 44:267, 44:268, 45:435, 45:438, 45:441
emerici, 40:393
europaea, 37:22, 37:23
pacifica, 37:23
ramosissima, 40:393, 40:396
rubra, 44:438

virginica, 44:348, 45:431, 45:434, 45:435, 45:439, 45:441
Salicornietea, 40:388, 40:390
Salicornietum
bigelovii, 40:393, 40:394, 40:403
emerici, 40:393, 40:395, 40:403
ramosissimae, 40:393, 40:395, 40:403
Salicornion bigelovii, 40:391
Salinas-Moreno, Yolanda, Gerardo Zuñiga-Bermudez, and Ramon Cisneros-Barrios, Chromosomal variation in Mexican populations of the genus *Dendroctonus* (Coleoptera: Scolytidae), 39:283–286
Salix, 37:356, 38:10, 38:290, 39:176, 40:91, 40:107, 40:131, 40:238, 40:260–263, 40:265, 41:216, 41:448, 42:127, 42:266, 42:446, 43:16, 44:149, 44:279, 44:312, 44:399, 45:8, 45:12, 45:268, 45:338, 46:191, 46:194, 46:196, 46:198, 46:199, 46:401
amygdaloides, 40:135, 40:289, 41:49, 41:207–211, 44:430, 44:432, 45:411
babylonica, 42:356
bondplandia, 46:195
caroliniana, 45:410
eriocephala, 44:429
exigua, 37:188, 38:212, 40:135, 40:137, 40:264, 40:407, 41:207–211, 42:138, 42:156, 42:319, 44:226, 44:430, 44:432, 44:439, 45:160, 45:403, 45:408, 45:409, 45:411, 46:195, 46:377
gooddingii, 39:26, 39:138, 40:259, 40:264, 41:207, 41:208, 42:13, 42:138, 42:156, 44:226, 45:458, 46:195
goodingii, 40:407, 41:208–211, 45:160
humboldtiana, 44:458
humilis, 44:433
lasiolepis, 42:75, 44:405
lasolepis, 46:195
monticola, 46:107
niger, 45:31
nigra, 44:428–430, 44:432, 44:535, 45:402, 45:403, 45:408, 45:410, 45:411, 45:415, 45:435, 45:438, 45:439, 45:442
planifolia, 46:107
scouleriana, 43:214, 46:286
taxifolia, 46:195
Salmo
gairdneri, 37:166, 37:357, 37:358
trutta, 37:120–122, 39:228, 40:240, 41:155, 44:153, 44:386
Salmonella, 38:32, 38:33, 38:74, 38:75
Salpinctes obsoletus, 37:388, 37:398, 37:400, 38:46, 40:357, 42:226, 43:456
Salpingidae, 37:108
Salsola, 42:221, 42:222, 46:241
iberica, 38:208, 39:4, 39:343, 43:168, 43:498
kali, 39:56, 39:96, 39:292, 40:225, 41:240, 42:138, 43:450, 45:388, 45:419
pestifer, 38:229
soda, 40:396
tragus, 42:218, 42:220, 42:360
Salsoletea vermiculatae, 40:402
Saltator
atriceps, 43:232
maximus, 43:232
Salticidae, 45:462
Salvadora
baindi, 39:173
grahamiae, 40:119–120, 43:10, 43:443, 43:445
hexalepis, 40:119–120, 40:334, 43:413
mexicana, 39:173
Salvelinus fontinalis, 40:240, 44:46, 46:107
Salvia, 39:354, 45:509
apiana, 42:340
ballotaeflora, 37:387, 43:276, 45:105
balloteaeflora, 43:277
canescens, 43:29, 43:39
cardinalis, 37:92
farinacea, 42:183
mellifera, 42:340
roemeriana, 42:183, 42:186
Sambucus, 38:374
canadensis, 45:404
mexicana, 46:195
Samolus ebracteatus, 45:434, 45:435, 45:442
Sanborn, Allen F., and Polly K. Phillips, Thermal responses of the *Dicerprocta cinctifera* species group (Homoptera: Cicadidae), 41:136–139
Sánchez H., Cornelio, Carlos J. Alvarez R., and María de Lourdes Romero A., Biological and ecological aspects of *Microtus oaxacensis* and *Microtus mexicanus*, 41:95–98
Sánchez H., Cornelio, Ma. de Lourdes Romero A., y Arturo Núñez G., El oso hormiguero *Tamandua mexicana* en la costa del estado de Michoacán, 37:88–89
Sánchez, Oscar, Jorge A. Vargas, and William López-Forment, Observations of bats during a total solar eclipse in Mexico, 44:112–115
Sánchez-Cordero, Víctor, see Bonilla, Carlos, —
Sánchez-Cordero, Víctor, see Servín, Jorge, —
Sánchez-Cordero, Víctor, see Sosa-Escalante, Javier, —
Sánchez-Hernández, Cornelio, María de Lourdes Roméro-Almaraz, Robert D. Owen, Arturo Núñez-Garduño, and Ricardo López-Wilchis, Noteworthy records of mammals from Michoacán, México, 44:231–235
Sánchez-Ramos, Gerardo, see Flores-Maldonado, Karla Y., —
Sanchez-Ramos, Gerardo, see Rojas Agil, Mara, —
Sanderson, Stewart, see Glenn, Edward, —
Sandlin, Elizabeth A., see Willig, Michael R., —
Sandoval, Cristina, Persistence of a walking-stick population (Phasmatoptera: Timematodea) after a wildfire, 45:123–127
Sandquist, Darren R., William S. F. Schuster, Lisa A. Donovan, Susan L. Phillips, and James R. Ehleringer, Differences in carbon isotope discrimination between seedlings and adults of southwestern desert perennial plants, 38:212–217
Sanguisorba, 43:379
Sankey, Julia T., Thomas R. Van Devender, and William H. Clark, Late Holocene plants, Catavina, Baja California, 46:1–7
Sapindaceae, 41:434–440
Sapindus
drummondii, 45:402, 45:404, 45:407
saponaria, 43:276, 44:436, 45:31, 45:407, 45:425, 45:427, 46:195
Sapindy saponaria, 44:458
Sapium, 46:191
Sapotaceae, 43:74
Sapotes, 37:115
longipillis, 37:108, 37:113
puncticolis, 37:108
puncticollis, 37:113
Sarabia, Susy Sanoja, see Lemos-Espinal, Julio A., —
Sarcobatus, 41:214
vermiculatus, 39:186, 39:299
Sarcocornia, 40:398, 40:401, 40:403
fruticosa, 40:393, 40:396, 40:401
pacifica, 40:393, 40:399, 40:401
perennis, 40:393, 40:396
Sarcocornietum
alpini, 40:393, 40:395, 40:403
fruticosae, 40:394, 40:395, 40:403
pacificae, 40:393, 40:394, 40:403
perennis, 40:393, 40:395, 40:403
Sardinops sagax, 38:219, 38:221
Sargassum, 44:263
Sarma, S. S. S., and M. Elías-Gutiérrez, Rotifers from Mexico: new records in high altitude ponds, 45:366–373
Sartorius, Shawn S., and Philip C. Rosen, Breeding phenology of the lowland leopard frog (*Rana yavapaiensis*): implications for conservation and ecology, 45:267–273
Sasa, Mahmood, and Juan Salvador Monrós, Dietary analysis of helmeted basilisks, *Corytophanes* (Reptilia: Corytophanidae), 45:358–361
Sasa, Mahmood, see Solorzano, Alejandro, —
Sassafras albidum, 44:427, 44:441
Satureja macrostema, 37:92
Satyridae, 44:378

Saueda vera, 40:402
Sauedetum verae, 40:395
Sauria, 37:349–355, 37:82–86, 37:311–314, 39:40–44, 39:45–52, 39:235–240, 39:328–335, 41:64–67, 41:359–364, 42:290–301, 43:92–95, 43:381–390, 44:64–72, 45:527–533
Sauromalus
obesus, 37:325
slevini, 37:284
Sawyer, Marlin W., and John T. Baccus. Movement ecology and thermal biology of *Bogertophis subocularis* from Texas (Serpentes: Colubridae), 41:182–186
Saxifraga texana, 44:442
Saxifragaceae, 46:286
Sayornis
nigricans, 37:388, 37:390, 37:398, 38:60, 38:62, 44:540, 46:237–238
phoebe, 44:540
saya, 37:388, 37:398, 38:46, 38:62, 40:94, 40:97, 40:357, 42:226, 44:540–542
Scale effects in assessing the impact of imported fire ants on small mammals, Michael J. Killion and William E. Grant, 38:393–396
Scalopus aquaticus, 37:56, 37:61–63
Scaphiopus, 38:316
couchii, 43:8, 43:158, 43:441, 43:443, 43:445, 43:446, 46:104–106
holbrookii, 43:8
hurterii, 43:8
multiplicatus, 39:55, 39:56, 46:104
Scaphirhynchus platorynchus, 42:282, 42:284
Scapholeberis, 40:322
armata, 43:95
kingi, 40:323, 40:324
Scarabaeidae, 37:107, 37:111, 37:115, 45:464, 46:209, 46:241
Scarabeidae, 44:508
Scarabidae, 45:473
Scaridium longicaudum, 45:369
Scarites, 45:463
Scartomyzon austrinus, 39:109, 39:110
Scelaperus magister, 46:221
Sceloporus
aeneus, 39:172, 39:313, 39:314, 39:316–318, 42:293, 42:296
belli, 43:20–24
bicanthalis, 42:293, 42:296
chaneyi, 42:293, 42:295–297, 42:299, 42:300
clarki, 40:116–118, 40:188, 40:190
dugesi, 39:173
formosus, 39:174
gadovae, 39:172, 39:311, 39:313–318, 39:320, 44:57–63
goldmani, 42:293, 42:296
graciosus, 40:116, 44:60, 44:61
grammicus, 37:354, 39:172, 39:313, 39:314, 39:316–318, 41:107, 44:64–72
horridus, 42:346
jarrovi, 37:353, 39:40–44, 39:172, 39:318, 41:179–182, 42:346
jarrovii, 38:381–383, 39:303, 39:304, 40:185, 40:187–191, 40:330–333, 46:386
magister, 37:349, 37:353, 42:233, 43:158
melanorhinus, 39:172
merriami, 42:233, 44:60, 44:61
minor, 39:41–44
mucronatus, 37:349–355, 41:107, 42:344–347
occidentalis, 40:116, 40:117, 44:61, 46:385
ochoterenai, 39:172
olivaceus, 41:359–360
orcutti, 38:305, 38:306, 44:61
palaciosi, 39:172
poinsetti, 37:349, 37:353
samcolemani, 42:290, 42:293, 42:295–297, 42:299, 42:300
scalaris, 39:172, 40:188, 42:290–301, 44:61
siniferus, 39:172
slevini, 42:290, 42:293, 42:295–300
spinosus, 39:172, 39:313, 39:314, 39:316–318
subniger, 42:293, 42:296
torquatus, 37:349, 37:353, 37:354, 39:40–44, 39:172, 39:313, 39:314, 39:316–318, 41:107
undulatus, 39:56, 40:113, 40:198, 41:179, 41:359, 42:300, 43:20–24, 43:445, 43:446, 44:60, 44:61
variabilis, 39:174, 40:122, 42:346, 44:60
virgatus, 40:116–118, 44:60, 44:61, 46:56
woodi, 44:61
Schaefer, Jacob F., see Gido, Keith B., —
Schaefer, Jacob F., see Lienesch, Philip W., —
Schaefferia
cuneifolia, 43:276, 43:277
stenophylla, 43:39
Scharf, William C., and Josef Kren. Summer diet of orchard orioles in southwestern Nebraska, 42:127–131
Schedonnardus paniculatus, 42:253, 42:254, 45:413, 46:173
Schemnitz, Sanford D., see Ireland, Terry T., —
Schiffmiller, Gary, see Pittenger, John S., and —
Schiffornis turdinus, 43:231, 43:232
Schimmelpfenig, Gary T., see Pitts, Richard M. —
Schismus barbatus, 42:359, 42:360
Schistidium apocarpum, 45:230
Schistocerca, 43:292
Schizachyrium, 46:286, 46:396
Schizachyrium scoparium, 39:118, 39:197, 41:27–34, 41:251, 42:443, 43:166, 44:262, 44:265–269, 44:425, 44:428–436, 44:441, 44:442, 45:47, 45:95, 45:103, 45:105, 45:387, 45:388, 45:390, 45:401, 45:402, 45:405–414, 45:417, 45:419, 45:435–439, 45:442, 46:285, 46:289, 46:291, 46:296
Schizachyrum
scoparium, 37:368
scoparius, 37:369
Schizocosa
crassipes, 37:132
mccooki, 46:209
mimula, 46:209
minnesotensis, 46:209
Schizopelma, 45:302
bicarinatum, 45:304
Schizopera tobae, 43:259
Schmid, Jennifer L., Norman O. Dronen, and Merrill H. Sweet, III. Intestinal helminths of mottled ducks, *Anas fulvigula maculosa*, from the East Texas gulf coast, 40:325–327
Schmidly, David J., see Baumgardner, George D., —
Schmidly, David J., see Smith, Steven A., —
Schmidt, Cheryl A., see Bich, Brian S., —
Schmidt, Timothy R., Thomas E. Dowling, and John R. Gold, Molecular systematics of the genus *Pimephales* (Teleostei: Cyprinidae), 39:241–248
Schmitt, C. Gregory, see Best, Troy L., —
Schmitt, Christopher J., see Wilkinson, Chris, —
Schmitter-Soto, Juan J., Distribution of continental fishes in northern Quintana Roo, Mexico, 44:166–172
Schneider, Jon P., Thomas C. Tacha, and David Lobpries, Breeding distribution of black-bellied whistling ducks in Texas, 38:383–385
Schneider, Rick, see Lauver, Chris L., —
Schnell, Gary D., see Haner, Thomas W., —
Schwenoplectus, 44:443
acutus, 44:440
pungens, 44:434, 45:434, 45:435, 45:437, 45:441
tabernaemontani, 44:440
Scholl, Elizabeth L., and Robert J. Kincan, Grazing effects on reproductive characteristics of common curlynesquite (*Hilaria belangeri*), 41:251–256

Schomburgkia tibicinis, 45:80
Schowalter, T. D., Arthropod associates and herbivory on tarbush in southern New Mexico, 41:140–144
Schramm, Harold L., Jr., see Neck, Raymond W., and —
Schrankia
nuttalli, 46:339
nuttallii, 41:55
uncinata, 37:369
Schuster, William S. F., see Sandquist, Darren R., —
Schweitzer, Sara H., and David M. Leslie, Jr., Foraging patterns of the least tern (*Sterna antillarum*) in north-central Oklahoma, 41:307–314
Schwilk, Dylan W., and Jon E. Keeley, Rodent populations after a large wildfire in California chaparral and coastal sage scrub, 43:480–483
Sciaenidae, 40:316, 42:283, 42:287
Scincella
gemmingeri, 40:122
lateralis, 39:49
Scincidae, 41:103–110, 43:9
Scirpus, 37:206–208, 40:137, 41:76, 43:14, 44:432, 44:443
acutus, 42:319, 43:224
americana, 45:386, 45:414
americanus, 39:186, 42:49, 44:440, 45:414, 45:415
atrovirens, 44:439
cyperinus, 42:118
fluviatilis, 45:416
maritimus, 38:169, 38:170, 44:438
olneyi, 43:313, 43:315, 43:316, 43:318
paludosus, 45:415
pungens, 44:262, 44:265, 44:266, 44:268, 44:439, 44:440
tabernaemontani, 45:415, 45:416
validus, 44:439, 44:441
Sciuridae, 38:105–110, 38:224, 41:189–190, 46:62
Sciuris niger, 46:119
Sciuropsylla robustus, 46:95
Sciurus, 41:89
aberti, 39:89–90, 39:350–353, 40:420, 41:90–91, 44:88–89, 45:253–257, 46:64
arizonensis, 40:341, 46:62, 46:64
carolinensis, 38:148, 39:382, 40:341, 43:174, 44:189, 46:64
deppei, 40:417
granatensis, 40:418
griseus, 46:62, 46:64
nayaritensis, 40:340–342, 45:173, 46:62–65
niger, 37:204, 39:382, 40:162, 40:341, 42:356–358, 46:62, 46:64
oculatus, 41:272
richmondi, 40:416–418
variegatoides, 40:418
vulgaris, 46:62
Scizachyrium scoparium, 46:179
Scleria
lithosperma, 46:116
triglomerata, 44:434
Sclerobunus robustus, 38:236, 38:238, 38:239
Scleropogon
brevifolium, 40:355
brevifolius, 41:184, 45:315, 45:316
Sclerurus guatemalensis, 43:231
Scoliopleura, 46:201
peisonis, 46:202, 46:205
Scolopacidae, 38:62, 38:63, 42:225
Scolopendridae, 45:463
Scolytidae, 37:109, 37:114, 39:283–286
Scomber japonicus, 38:220
Scoppettone, G. Gary, and Howard L. Burge, Growth and survivorship of Moapa dace (Osteichthyes: Cyprinidae: *Moapa coriacea*) in an isolated stream reach on Moapa National Wildlife Refuge, 39:192–195
Scoppettone, G. Gary, Peter H. Rissler, M. Bridget Nielsen, and James E. Harvey, The status of *Moapa coriacea* and *Gila seminuda* and status information on other fishes of the Muddy River, Clark County, Nevada, 43:115–122
Score, Kim, see Johnson, Kristine, —
Scorpiones, 37:126–131
Scorpionidae, 37:131
Scott, Dave J., see Tischendorf, Jay W., —
Scott, Norman J., Jr., see Ford, Paulette L., and —
Scott, Susan D., see Tischendorf, Jay W., —
Scraptiidae, 45:464
Scrivner, Jerry H., see Cypher, Brian L., —
Scrivner, Jerry H., see Warrick, Gregory D., —
Scrophulariaceae, 38:390, 43:42, 45:442, 46:402
Scutellaria
drummondii, 45:103
lateriflora, 40:137
Scutellaridae, 46:241
Searcocornia pacifica, 40:399
Seasonal and ecological distribution of birds from Cuatrocienegas, Coahuila, Mexico, Armando J. Contreras-Balderas, Juan A. Garcia-Salas, and Jose I. Gonzalez-Rojas, 42:224–228
Seasonal and long-term changes in the fish assemblage of a small stream isolated by a reservoir, Philip W. Lienesch, William I. Lutterschmidt, and Jacob F. Schaefer, 45:274–288
Seasonal diet of *Lepidomeda vittata*, a threatened cyprinid fish in Arizona, Clay Runck and Dean W. Blinn, 38:157–159
Seasonal disking on seed production and invertebrate biomass, effects of, Robert J. Robel, Blake L. Henning, Kevin W. Johnson, Kenneth E. Kemp, and Kevin E. Church, 41:403–408
Seasonal population phenology and habitat preferences of montane harvestmen (Arachnida: Opiliones) from southwestern New Mexico, James C. Cokendolpher, William P. MacKay, and Martin H. Muma, 38:236–240
Seasonal variation in habitat use by the Neosho madtom (Teleostei: Ictaluridae: *Noturus placidus*), Linda Fuselier and David Edds, 39:217–223
Seasonal variation of riffle and pool fish assemblages in a short mitigated stream reach, Linda Fuselier and David Edds, 41:299–306
Seasonal variation in territorial behavior of golden-fronted woodpeckers in west-central Texas, Michael S. Husak, 45:30–38
Seasonality of *Alloglossoides caridicola* (Trematoda: Macroderoididae) infection in the crayfish *Procambarus acutus*, Hugh M. Turner, 45:69–71
Seastedt, T. R., see Simons, Stacey B., and —
Sebastes, 38:220, 38:221
Sedum
nuttallianum, 44:442, 45:103, 45:420
pulchellum, 44:442
stahlii, 43:39
sthalii, 43:29
Seed dispersal through removal of avian nestling fecal sacs, Laurie Stuart Simons and Lee H. Simons, 38:282–284
Seed dormancy in the Colorado Plateau shrub *Mahonia fremontii* (Berberidaceae) and its ecological and evolutionary implications, Carol C. Baskin, Jerry M. Baskin, and Susan E. Meyer, 38:91–99
Seed production and pollen tube growth following cross- and self-pollinations in *Sphaeralcea laxa* Woot. & Standl., Tani Hubbard, Debra M. Conta, and Steven E. Smith, 38:331–335
Seed size for seedling survival in *Carnegiea gigantea* and *Ferocactus wislizeni* (Cactaceae), implications of, Janice E. Bowers and Elizabeth A. Pierson, 46:272–281
Seeding burned lands on the abundance of rodents and leporids on Naval Petroleum Reserve No. 1,

Kern County, California, effect of, Mark R. M. Otten and Gary L. Holmstead, 41:129–135
Seeds of *Yucca whipplei* var. *whipplei* germinate in the fruit, Travis E. Huxman and Michael E. Loik, 41:318–320
Segovia, Augusto, see Sosa-Escalante, Javier, —
Seigler, David S., see Ebinger, John E., and —
Sena, 44:143
Senurus
aurocapillus, 45:163
nowbonacensis, 38:63, 45:163
Selaginella
densa, 37:278
lepidophylla, 37:274–279
peruviana, 40:428, 42:444, 45:420
Selaginellaceae, 37:274
Selasphorus
platycercus, 43:453, 43:456
rufus, 38:376
sasin, 38:375
Selective ingestion by *Eremobates marathoni* Muma (Arachnida, Solifugae: Eremobatidae), Fred Punzo, 43:296–299
Selenicereus testudo, 45:79
Selenophorus
gagatinus, 37:105, 37:106
palliatus, 37:106
planipennis, 45:463
Self-incompatibility in *Abronia macrocarpa* (Nyctaginaceae), Paula S. Williamson and Selvi K. Bazeer, 42:409–415
Sell, Scott M., see Jorgensen, Eric E., —
Sellaphora pupula, 46:205
Semotilus
atromaculatus, 38:12, 41:158, 41:301, 41:302, 42:282
corporalis, 39:225
Senecio, 37:92, 46:195, 46:241
douglasii, 42:189
glabellus, 45:404
longilobus, 37:51, 39:344
multicapitatus, 38:225
multilobatus, 46:286
riddellii, 45:433, 45:434, 45:441
triangularis, 43:208, 43:212, 43:213
Senescence for the white-footed mouse?, a case of, Brock R. McMillan, Glennis A. Kaufman, and Donald W. Kaufman, 42:236–237
Senna, 43:276
occidentalis, 45:289–298
Senock, R. S., D. L. Devine, W. B. Sisson, and G. B. Donart, Ecophysiology of three C_4 perennial grasses in the northern Chihuahuan Desert, 39:122–127
Sentinolis triaspis, 39:173
Sequoiadendron giganteum, 38:277
Serica, 37:107
Sericostomatidae, 37:166, 37:168, 37:169, 37:171–173, 37:175, 37:176
Serio-Silva, Juan C., and Victor Rico-Gray, Use of a stream by Mexican howler monkeys, 45:332–333
Seriola lalandi, 38:220
Serpentes, 40:120–123, 40:124–125, 41:182–186, 43:374–375, 43:412–415, 44:478–483, 45:141–153, 46:114–116, 46:387–391
Serratella
micheneri, 38:266
tibialis, 38:266, 38:269
Serratia liquefaciens, 38:74
Servín, Jorge, Carmen Huxley, and Elias Chacón, First record of the spotted skunk *Spilogale putorius* (Carnivora: Mustelidae) in the state of Durango, Mexico, 40:227–228
Servín, Jorge, Víctor Sánchez-Cordero, and Fernando A. Cervantes, First record of the Sierra Madre mantled ground squirrel (*Spermophilus madrensis*; Rodentia: Sciuridae) from Durango, México, 41:189–190
Sesarma veticulatum, 44:468
Sesbania drummondii, 45:437
Sesuvium
portulacastrum, 41:435, 44:262–264, 44:268, 45:434, 45:438, 45:439, 45:441
verrucosum, 45:420
Setaria, 46:241
glauca, 41:404
leucopila, 41:184, 43:54, 43:165, 43:166, 43:450, 46:248
verticillata, 46:116
viridis, 41:404
Setophaga ruticilla, 45:163, 45:165
Sex and egg-case presence on predatory behavior of the wolf spider *Pardosa valens* Barnes (Araneae: Lycosidae), influence of, J. Bruce Moring and Kenneth W. Stewart, 37:132–137
Shackelford, Clifford E., and Julie K. Shackelford, Ruby-crowned kinglet impaled on greenbriar thorn, 46:116–118
Shackelford, Jenni, and William Caire, Variation in pH, volume, osmolality, and sodium and calcium levels of the urine of hibernating *Myotis velifer* from western Oklahoma, 38:159–163
Shackelford, Julie K., see Shackelford, Clifford E., and —
Shafferia, 37:387
Shannon, Joseph P., see Oberlin, Gave E., —
Shaw, Harley G., see Wakeling, Brian F., —
Shaw, James H., see Barko, Valerie A., —
Shaw, William W., see Bounds, Dixie L., and —
Shaw, William W., see McClure, Mark F., —
Shepard, William D., and Doug Threloff, Additional records of riffle beetles (Coleoptera: Elmidae) in Death Valley National Park, California, 42:496–497
Shepherd, William M., and Kimberly G. Smith, Fork-tailed flycatcher (*Tyrannus savana*) in Arkansas in January with comments on winter occurrence in North America, 41:194–195
Shepherdia canadensis, 43:208–210
Sherbrooke, Wade C., see Manley, Donald G., and —
Sherbrooke, Wade C., see Middendorf, George A., III, —
Sherman, Michael W., see Camp, Richard J., —
Shindle, David B., and Michael E. Tewes, Woody species composition of habitats used by ocelots (*Leopardus pardalis*) in the Tamaulipan biotic province, 43:273–279
Shoen, Steven M., see Stangl, Frederick B., Jr., —
Shohet, Cecile, see Szarek, Stan R., —
Shorebird migration for north-central Texas, recent trends in, Robert L. Neill, 37:87–88
Short-term impacts of prescribed fire on a rodent community in desert grasslands, Christopher S. Fitzgerald, Paul R. Krausman, and Michael L. Morrison, 46:332–337
Short-term reductions in plant densities following prescribed fire in an ungrazed semidesert shrub-grassland, Jane H. Bock and Carl E. Bock, 37:49–53
Shrub densities in relation to fire, livestock grazing, and precipitation in an Arizona desert grassland, Carl E. Bock and Jane H. Bock, 42:188–193
Shyrapicus
nuchalis, 45:32
varius, 45:32
Sialia
currucoides, 37:398, 40:83, 40:95
mexicana, 37:293, 37:389, 37:398, 40:80, 40:88
sialis, 37:296, 40:167
Sibling *Drosophila* species from Laguna Verde, Veracruz, Mexico. V. Temporal stability in dispersive behavior, studies of, O. Olvera, R. F.

Rockwell, M. E. de la Rosa, J. Guzman, M. J. Laverde, and L. Levine, 38:15–18
Sibon sartorii, 40:122
Sida, 43:276
abutifolia, 42:444, 45:95, 45:103, 45:105
crystallina, 40:323
procumbens, 45:414
Siders, Melissa S., see Rabe, Michael J., —
Sididae, 40:323
Siemens, David H., and Erick Greene, Observations of Mexican jays (*Aphelocoma ultramarina*, Corvidae) overcoming defenses of two species of wooly bear caterpillars (Arctiidae), 40:232–233
Siepel, Nancy, see Rathbun, Galen B., —
Sierra Madre mantled ground squirrel (*Spermophilus madrensis*; Rodentia: Sciuridae) from Durango, México, first record of the, Jorge Servín, Victor Sánchez-Cordero, and Fernando A. Cervantes, 41:189–190
Sigara lateralis, 43:86
Sighting of a large group of pumas (*Puma concolor*), a, Jay W. Tischendorf, Dave J. Scott, Susan D. Scott, and Bill Heicher, 40:226–227
Sigmodon, 38:395, 43:53–55
fulviventer, 37:213–214, 39:209, 42:18
hispidus, 37:213, 37:214, 38:81, 38:285, 38:394, 39:3, 39:5, 39:8, 39:209, 39:292, 39:293, 39:359, 39:360, 39:379, 40:162, 40:177, 41:54–59, 41:123–128, 41:190, 41:193, 42:15, 42:16, 42:18, 43:98, 43:99, 44:111, 44:408, 44:480, 45:45, 45:48, 45:50, 45:51, 46:119, 46:332, 46:340, 46:341
minor, 38:116
ochrognathus, 37:214, 46:334
Sigmodon fulviventer in Texas: natural history and cytogenetic observations, first record of, Frederick B. Stangl, Jr., 37:213–214
Sikes, Robert S., and Michael L. Kennedy, Geographic variation in sexual dimorphism of the bobcat (*Felis rufus*) in the eastern United States, 38:336–344
Silene laciniata, 42:472
Silvus, 44:24
Silphidae, 38:275, 40:50–55, 45:464
Silphium
laciniatum, 37:369
terebinthinaceum, 37:369
Silva, S. I., see MacKay, W. P., —
Silver-haired bat (*Lasionycteris noctivagans*) in Louisisana, noteworthy record of the, Richard F. Lance and David L. Rogowski, 44:241–242
Silvy, Nova J., see Harveson, Louis A., —
Similarity of zonation within Californian-Baja Californian and Mediterranean salt marshes, Manual Peinado, Francisco Alcaraz, Juan Luis Aguirre, José Delgadillo, and Julio Álvarez, 40:388–405
Simmondsia, 37:376
chinensis, 38:200, 38:346, 46:4, 46:5, 46:346
Simocephalus serrulatus, 40:323, 40:324
Simon, Thomas P., and Joseph B. Kaskey, Description of eggs, larvae, and early juveniles of the bigscale logperch, *Percina macrolepida* Stevenson, from the west fork of the Trinity River basin, Texas, 37:28–34
Simon, Thomas P., Thomas M. Brandt, Kerry G. Graves, and Bobby G. Whiteside, Ontogeny and description of eggs, larvae, and early juveniles of the fountain darter, *Etheostoma fonticola*, 40:208–215
Simondsia chinensis, 37:282
Simons, Laurie Stuart and Lee H. Simons, Seed dispersal through removal of avian nestling fecal sacs, 38:282–284
Simons, Lee H., and William E. Van Pelt, Occurrence of *Sorex arizonae* and other shrews (Insectivora) in southern Arizona, 44:334–342
Simons, Lee H., see Simons, Laurie Stuart and —
Simons, Stacey B., and T. R. Seastedt, Decomposition and nitrogen release from foliage of cottonwood (*Populus deltoides*) and Russian-olive (*Elaeagnus angustifolia*) in a riparian ecosystem, 44:256–260
Simonycteris, 38:117
stocki, 38:111, 38:115
Simsia calva, 43:196
Simulation modeling of population viability for the leopard darter (Percidae: *Percina pantherina*), Lance R. Williams, Anthony A. Echelle, Conrad S. Toepfer, Marsha G. Williams, and William L. Fisher, 44:470–477
Simuliidae, 37:166, 37:168–173, 37:175, 37:176, 38:86, 38:157, 41:70, 41:71, 42:151, 44:155
Simulium
tuberosum, 38:87
venustum, 38:87
Sin nombre virus antibody prevalence in rodents of north-central New Mexico, James R. Biggs, Kathryn D. Bennett, Norah Torrez-Martinez, and Brian L. Hjelle, 45:61–66
Sinclair, John A., Robert L. Lochmiller, Charles W. Qualls, Jr., and Connie C. Cummings, Alopecia associated with postjuvenile molt in a wild population of *Peromyscus maniculatus*, 43:405–407
Singhurst, Jason R., Wendy J. Ledbetter, and Walter C. Holmes, *Ardisia crenata* (Myrsinaceae: new to Texas, 42:503–504
Siphateles bicolor, 45:520
Siphlonuridae, 38:253, 38:268, 39:61, 39:251
Siphlonurus
columbianus, 38:253
occidentalis, 38:253, 39:251
Siphonatpera, 46:94–96
Siren intermedia, 42:38, 43:7
Sirenidae, 43:7
Sissom, W. David, and Anne L. Walker, A new species of *Diplocentrus* from western Mexico (Scorpiones, Diplocentridae), 37:126–131
Sisson, W. B., see Senock, R. S., —
Sistrurus
catenatus, 44:531–535
ravus, 39:173
Sisyrinchium biforme, 45:434, 45:435, 45:441
Sitanion hystrix, 45:413, 46:285
Sites, Robert W., and John T. Polhemus, The *Pelocoris* (Hemiptera: Naucoridae) fauna of Texas, 40:249–254
Sitta
canadensis, 40:80, 43:456
carolinensis, 37:388, 39:377, 40:83, 43:457
pygmaea, 43:456
Sittasomus griseicapillus, 43:231
Sitticus, 45:462
Size and habitat characteristics of home ranges of northern grasshopper mice (*Onychomys leucogaster*), Paul Stapp, 44:101–105
Size decline in *Larrea tridentata* (creosotebush), Richard E. Miller and Laura Foster Huenneke, 41:248–250
Skartvedt, Peter H., Woody riparian vegetation patterns in the upper Mimbres watershed, southwestern New Mexico, 45:6–14
Skistodiaptomus
oregonensis, 43:258
reighardi, 43:96
Skoruppa, Mary K., see Woodin, Marc C., —
Skull growth in cannibalistic tiger salamanders, *Ambystoma tigrinum*, Scott C. Pedersen, 38:316–324
Skupski, Marian P., see Best, Troy L., —
Slack, R. Douglas, see Chavez-Ramirez, Felipe, and —
Sloanea berteriana, 43:72, 43:74

Small green sunfish (*Lepomis cyanellus*) on recruitment of Gila chub (*Gila intermedia*) in Sabino Creek, Arizona, effects of, Robert K. Dudley and William J. Matter, 45:24–29
Small, Michael F., see Glass, Jason W., —
Small, Michael F., see Spiegel, Linda K., —
Smallwood, K. Shawn, and Michael L. Morrison, Estimating burrow volume and excavation rate of pocket gophers (Geomyidae), 44:173–183
Smallwood, K. Shawn, and Michael L. Morrison, Spatial scaling of pocket gopher (Geomyidae) density, 44: 73–82
Smallwood, K. Shawn, Mountain lion vocalizations and hunting behavior, 38:65–67
Smallwood, K. Shawn, Trends in California mountain lion populations, 39:67–72
Smartt, Richard A., see Best, Troy L., —
Smartt, Richard A., see Lucas, Spencer G., and —
Smeins, Fred E., see Yager, Lisa Y., and —
Smerinthus cerisyi, 42:89
Smicridea fasciatella, 38:21
Smilax, 46:116–118
bona-nox, 37:369, 43:190, 45:407, 45: 410, 45:412
rotundifolia, 45:410
Smilisca baudini, 41:329, 41:330
Smith, Christine, Raul Valdez, Jerry L. Holechek, Phillip J. Zwank, and Manuel Cardenas, Diets of native and non-native ungulates in south-central New Mexico, 43:163–169
Smith, Eric N., and Manuel E. Acevedo, The northernmost distribution of *Corallus annulatus* (Boidae), with comments on its natural history, 42:347–349
Smith, Eric N., *Geophis rhodogaster* (Colubridae), an addition to the snake fauna of Mexico, 40:123–124
Smith, Felisa A., Den characteristics and survivorship of woodrats (*Neotoma lepida*) in the eastern Mojave Desert, 40:366–372
Smith, Geoffrey R., and Royce E. Ballinger, Substrate preference and perch height selection by hatchling lizards (*Sceloporus virgatus* and *S. clarki*), 40:116–118
Smith, Geoffrey R., Royce E. Ballinger, and Julio A. Lemos-Espinal, Male reproductive cycle of the knob-scaled lizard, *Xenosaurus grandis*, 45:356–357
Smith, Geoffrey R., see Ballinger, Royce E., —
Smith, Geoffrey R., see Lemos-Espinal, Julio A., —
Smith, Hobart M., and David Chiszar, Reassessment of the nominal species of false coral snakes, *Pliocercus psychoides* (Reptilia: Serpentes), 46: 114–116
Smith, Hobart M., David Chiszar, and Frank van Breukelen, Resurrection of *Tantilla triseriata* (Reptilia: Serpentes) of Mexico, 43:374–375
Smith, Hobart M., Frank van Breukelen, David L. Auth, and David Chiszar, A subspecies of the Texas blind snake (*Leptotyphlops dulcis*) without supraoculars, 43:437–440
Smith, Hobart M., Gregory J. Watkins-Colwell, Julio A. Lemos-Espinal, and David Chiszar, A new subspecies of the lizard *Sceloporus scalaris* (Reptilia: Sauria: Phrynosomatidae) from the Sierra Madre Occidental of Mexico, 42:290–301
Smith, Hobart M., see Lemos-Espinal, Julio A., —
Smith, Kimberly G., see Coldren, Mary K., —
Smith, Kimberly G., see Shepherd, William M., and —
Smith, Lawrence J., Andrew T. Holycross, Charles W. Painter, and Michael E. Douglas, Montane rattlesnakes and prescribed fire, 46:54–61
Smith, Michael H., see Peles, John D., —
Smith, Norman S., see McClure, Mark F., —
Smith, Rosemary J., and Bryce Heese, Carcass selection in a high altitude population of the burying beetle, *Nicrophorus investigator* (Silphidae), 40:50–55
Smith, Rosemary J., see Bihr, Keeley J., and —
Smith, Steven A., Ira F. Greenbaum, and David J. Schmidly, A problematic specimen of *Peromyscus* with an unusual karyotype, 39:289–291
Smith, Steven A., see Henke, Scott E., and —
Smith, Steven E., see Hubbard, Tani, —
Smith, Thornton W., see McKinney, Ted, —
Smith, Todd G., *Macdonaldius sertae* (Nematoda: Spirurida: Filaroidea) in a Trans-Pecos rat snake (*Elaphe subocularis*), 42:329–332
Smith, Walter E., see Van Zee, Justin W., —
Smithistruma, 38:388–389
angulata, 38:388
bunki, 38:388
clypeata, 38:388
laevinasis, 38:388
ohioensis, 38:388
ornata, 38:388
pilinasis, 38:388
pulchella, 38:388
reflexa, 38:388
rostrata, 38:389
Snail *Melanoides tuberculata* (Müller, 1774) (Gastropoda: Thiaridae) in the Cuatro Cienegas Basin, and its distribution in the state of Coahuila, Mexico, new records of the, Alberto Contreras-Arquieta, 43: 283–286
Snell, Howard L., see Sugg, Derrick W., —
Snow, Tim K., see Rabe, Michael J., —
Snyder, Kristin M., see Baskin, Jerry M., —
Snyder, Trisha R., see Kamler, Jan F., —
Sobolevicanthus, 39:205
filumferens, 40:326
Soil changes following 18 years of protection from grazing in Arizona chaparral, John J. Brejda, 42:478–487
Soil properties of the Kelso Sand Dunes in the Mojave Desert, Simon A. Lei, 43:47–52
Soil texture uses by sympatric kangaroo rats on the White Sands dune complex, J. Jeffrey Root, Eric E. Jorgensen, and Stephen Demarais, 45:533–535
Solanaceae, 42:490, 43:42, 45:442
Solanum, 39:343, 42:410
carolinense, 45:419
dulcamara, 42:128
elaeagnifolium, 42:254, 45:458
hindsianum, 37:282, 46:5
triflorum, 39:344
triquetrum, 43:276, 43:277
tuberosum, 37:386
verbascifolium, 43:276
Solenopsis, 42:229, 42:231, 45:465
geminata, 43:335, 44:459, 46:396
invicta, 38:136–140, 38:393–396, 41: 123–128, 43:97–100, 43:335, 45: 118, 45:289–298, 45:477–482, 46: 396–400
krockowi, 44:281, 46:397, 46:398, 46: 400
molesta, 37:431, 37:432
wagneri, 45:118–122
xyloni, 42:230, 46:396
Solidago, 37:369, 42:215
altissima, 42:384–399
canadensis, 40:137, 42:392, 45:18–20
gattingeri, 42:391
gigantea, 40:137
missouriensis, 37:367, 37:368, 37:370, 44:436, 45:412

sempervirens, 44:266, 44:268
shortii, 42:384–399
sparsiflora, 46:286
velutina, 46:286
Solierella
hooki, 43:250
sonorae, 43:250
vierecki, 43:250
Solifugae, 43:291–295, 43:296–299
Solorzano, Alejandro, Marjorie Romero, José Maria Gutierrez, and Mahmood Sasa, Venom composition and diet of the cantil *Agkistrodon bilineatus howardgloydi* (Serpentes: Viperidae), 44:478–483
Solpugids (Arachnida) of the Sevilleta National Wildlife Refuge, New Mexico, Jack O. Brookhart and Sandra L. Brantley, 45:443–449
Somateria mollissima, 41:444
Sonora
episcopa, 46:387
michoacanensis, 39:173
semiannulata, 43:11, 46:387–391
Sonorella, 38:297
baboquivariensis, 45:454
coloradoensis, 38:294, 38:295
metcalfi, 42:471–473
Sophora, 44:9–11, 44:13
secundiflora, 44:6, 44:8, 44:12
tomentosa, 45:439
Sordahl, Tex A., Breeding biology of the American avocet and black-necked stilt in northern Utah, 41: 348–354
Sorex, 40:46, 45:62–64
arcticus, 37:54, 37:56, 37:61–63
arizonae, 44:334–342
cinereus, 37:61, 37:62, 37:318, 37:319, 38:56, 41:321
haydeni, 37:319, 38:56
hoyi, 38:56, 38:57
jacksoni, 38:56
longirostris, 38:56, 38:57
merriami, 38:56, 38:57, 42:475, 44:339
monticolus, 38:56, 38:57, 41:321, 44: 334–338, 44:341
nanus, 37:318, 38:56, 38:57, 41:321
ornatus, 39:131, 39:132, 42:3
palustris, 37:56, 37:61, 38:56
preblei, 37:318–319, 38:56–58, 41:320–322
saussurei, 37:92
tenellus, 38:56
trowbridgii, 44:339
vagrans, 37:318
Sorex arizonae and other shrews (Insectivora) in southern Arizona, occurrence of, Lee H. Simons and William E. Van Pelt, 44:334–342
Sorex preblei from the Black Canyon, first record for Colorado, Charles A. Long and Robert S. Hoffmann, 37:318–319
Sorex preblei from the Late Pleistocene of New Mexico, Arthur H. Harris and Leslie N. Carraway, 38:56–58
Sorghastrum, 42:387
nutans, 37:368, 37:369, 39:197, 40: 137, 41:54, 44:429, 44:430, 44:433–435, 45:47, 45:222, 45:387, 45:411–413, 46:178, 46:296
Sorghum
bicolor, 41:403, 41:404, 42:59
halapense, 38:225
halepense, 37:207, 45:388, 45:392, 45: 410, 45:416, 45:417, 45:420
halpense, 41:54
Soricidae, 38:57
Sosa, Vinicio J., see Hernández-Huerta, Arturo, —
Sosa-Escalante, Javier, see Martínez-Meyer, Enrique, —
Sosa-Escalante, Javier, Silvia Hernández, Augusto Segovia, and Víctor Sánchez-Cordero, First record of the coyote, *Canis latrans* (Carnivora: Canidae), in the Yucatan Peninsula, Mexico, 42:494–495
South American suckermouth armored catfish, *Pterygoplichthys anisitsi* (Pisces: Loricariidae), in Texas, with comments on foreign fish introductions in the American Southwest, the, Leo G. Nico and R. Trent Martin, 46:98–104
Southwestern Association of Naturalists Constitution, 40:435–441
Southwestern Association of Naturalists minutes of the annual business meeting Centenary College of Louisiana and Louisiana State University in Shreveport, Friday, 7 April 1995, the, Laura L. Janecek, 40:448–451
Southwestern Association of Naturalists minutes of the annual business meeting: Emporia State University, Emporia, Kansas, Friday, 22 April 1994, the, Laura L. Janecek, 39: 402–405
Southwestern Association of Naturalists minutes of the annual business meeting, Southwest Missouri State University, Springfield, Missouri, Friday, 16 April 1993, the, Laura L. Janecek, 38:413–416
Southwestern Association of Naturalists minutes of the business meeting, Albuquerque, New Mexico, Friday, 10 April 1998, the, David L. McNeely, 43:510–514
Southwestern Association of Naturalists minutes of the business meeting, Denton, Texas, Friday, 21 April 2000, the, David L. McNeely, 45: 552–556
Southwestern Association of Naturalists minutes of the business meeting, Fayetteville, Arkansas, Friday, 11 April 1997, the, David L. McNeely, 42:514–518
Southwestern Association of Naturalists minutes of the business meeting, Hays, Kansas, Friday, 20 April 2001, the, David L. McNeely, 46: 530–533
Southwestern Association of Naturalists minutes of the business meeting, McAllen, Texas, Friday, 19 April 1996, the, David L. McNeely, 41: 477–482
Southwestern Association of Naturalists minutes of the business meeting, Monterrey, Nuevo Leon, Mexico, Thursday, 22 April 1999, the, David L. McNeely, 44:553–556
Southwestern Association of Naturalists minutes of the meeting of the annual business meeting, Texas Tech University Center at Junction, Junction, Texas, Friday, 10 April 1992, the, Laura L. Janecek, 37: 440–442
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Albuquerque, New Mexico, Thursday, 9 April 1998, the, David L. McNeely, 43:505–510
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers Centenary College, Shreveport, Louisiana, Thursday, 6 April 1995, the, Laura L. Janecek, 40:442–447
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Denton, Texas, Thursday, 20 April 2000, the, David L. McNeely, 45: 547–552
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers: Emporia State University, Emporia, Kansas, Thursday, 21 April 1994, the, Laura L. Janecek, 39: 396–401
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Fayetteville, Arkansas, Thursday, 10 April 1997, the, David L. McNeely, 42:505–514
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Hays, Kansas, Thursday, 19 April 2001, the, David L. McNeely, 46: 525–530
Southwestern Association of Naturalists

minutes of the meeting of the Board of Governors and Officers, McAllen, Texas, Thursday, 18 April 1996, the, David L. McNeely, 41:470–476
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Monterrey, Nuevo Leon, Mexico, Wednesday, 21 April 1999, the, David L. McNeely, 44:547–552
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers Southwest Missouri State University, Springfield, Missouri, Thursday, 15 April 1993, the, Laura L. Janecek, 38:407–412
Southwestern Association of Naturalists minutes of the meeting of the Board of Governors and Officers, Texas Tech University Center at Junction, Junction, Texas, Thursday, 9 April 1992, the, Laura L. Janecek, 37:436–439
Sowka, Patricia A., Occurrence of two species of freshwater sponges (*Dosilia radiospiculata* and *Ephydatia muelleri*) in Arizona, 44:211–212
Spamer, Earle E., and Arthur E. Bogan, New records of Mollusca for Grand Canyon National Park and Arizona, 38:293–298
Sparganium, 44:439
Spartina, 38:169, 40:395, 40:401, 40:403, 41:345
densiflora, 40:393, 40:396, 40:398
foliosa, 40:393, 40:399
patens, 44:262, 44:266, 44:267, 45:434, 45:435, 45:437, 45:439, 45:442
pectinata, 40:137, 44:429, 44:430, 44:439, 45:415
Spartinetea maritimae, 40:388, 40:390
Spartinetum
densiflorae, 40:393, 40:395, 40:398, 40:403
foliosae, 40:393, 40:394, 40:398, 40:403
Spartinion foliosae, 40:391
Spatial and seasonal variation in prey use by coyotes in north-central Kansas, Dennis E. Brillhart and Donald W. Kaufman, 40:160–166
Spatial distribution of a population of Texas horned lizards (*Phrynosoma cornutum*: Phrynosomatidae) relative to habitat and prey, Martin J. Whiting, James R. Dixon, and Roy C. Murray, 38:150–154
Spatial genetic variability in the coyote (*Canis latrans*), John A. Peppers, Phyllis K. Kennedy, and Michael L. Kennedy, 41:388–394
Spatial habitat selection of roundtail chub (*Gila robusta*) in two central Arizona streams, Paul J. Barrett and O. Eugene Maughan, 40:301–307
Spatial relationships of *Helianthus paradoxus* (Compositae) and associated salt marsh plants, O. W. Van Auken and J. K. Bush, 43:313–320
Spatial scaling of pocket gopher (Geomyidae) density, K. Shawn Smallwood and Michael L. Morrison, 44:73–82
Spatial, seasonal, and diel variation in abundance of the bay anchovy, *Anchoa mitchilli* (Teleostei: Engraulidae), in a tropical coastal lagoon of Mexico, Manuel Castillo-Rivera, Griselda Moreno, and Rodolfo Iniestra, 39:263–268
Spatiotemporal variation in rodent abundance in the San Joaquin Valley, California, Brian L. Cypher, 46:66–75
Spatoglossum schroederi, 41:420
Spauligodon giganticus, 40:331–333
Spawning behavior of the paleback darter, *Etheostoma pallididorsum*, (Percidae), Carol E. Johnston, 40:422–425
Spea
bombifrons, 46:173
multiplicata, 43:443
multiplicatus, 43:445
Species composition of small mammals at an interstate highway interchange, Thomas W. Haner, Michael P. Moulton, Jerry R. Choate, and Todd R. Redfearn, 41:192–194
Species diversity, selectivity, and habitat associations of small mammals from coastal California, Gary M. Fellers, 39:128–136
Species of pocket gopher in Arkansas, a second, Douglas A. Elrod, Gary A. Heidt, Diana M. A. Elrod, Melaney Birdsong, and Earl G. Zimmerman, 41:395–398
Species rareness and commonness along spatial and temporal gradients, O. W. Van Auken, 42:369–374
Species richness and site fidelity among resident Neotropical birds, John C. Kricher and William E. Davis, Jr., 43:228–233
Spencer, Dwight L., see Gehrt, Stanley D., —
Spencer, Kenneth A., see Cypher, Brian L., —
Speotyto cunicularia, 42:226, 42:468
Spergularia
diandra, 40:396, 40:401
marina, 40:394, 40:399
media, 40:397, 40:401
Sperm storage resulting in viable offspring in the tree lizard *Urosaurus ornatus* (Sauria: Phrynosomatidae), Gloria A. Villaverde and Naida Zucker, 43:92–95
Spermolepis intermis, 45:95, 45:102, 45:103
Spermophilis
elegans, 43:106
lateralis, 37:358
Spermophilus, 38:164, 44:181
beecheyi, 37:293, 38:292, 39:92, 39:131, 39:132, 40:344, 41:88, 45:206
brunneus, 43:353, 43:359
columbianus, 43:353, 43:359, 43:360
franklinii, 37:61
lateralis, 41:88, 41:356, 43:352–362
madrensis, 41:189–190
richardsonii, 37:61, 43:353, 43:360
spilosoma, 37:57, 37:113, 38:224–235, 43:147, 43:148, 43:153, 43:154, 43:271, 44:194, 44:195, 44:196, 45:182
tereticaudus, 43:158
townsendi, 40:290
townsendii, 40:341, 43:353, 43:360
tridecemlineatus, 37:57, 37:61–63, 37:113, 40:162, 41:55, 41:193, 42:354, 43:359, 44:101, 45:45, 45:48, 45:50, 46:94, 46:342
variegatus, 41:272, 42:358, 46:119
Speyeria atlantis, 44:375, 44:378
Sphaeralcea, 38:208, 38:229, 38:241, 39:343, 43:165, 43:166, 43:168, 46:5
angustifolia, 37:114, 45:458
coccinea, 45:413, 46:210
incana, 41:216
laxa, 38:331–335
subhastata, 38:43
Sphaeriidae, 38:294, 38:295, 42:261
Sphaerium striatinum, 37:206–208
Sphaeropthalma auripilis, 43:254
Sphagnum, 41:209, 44:441
subsecundum, 45:388, 45:390, 45:416
Spharagemon
bolli, 37:364
equale, 37:364–366, 37:368, 37:370
Spharalcea, 38:227
Sphecidae, 43:249–255
Sphenopus divaricatus, 40:397, 40:402
Sphex nudus, 43:249
Sphingidae, 42:89, 44:87
Sphinx perelegans, 42:89
Sphoeroides
spengleri, 44:169
testudineus, 44:169
Sphyraena barracuda, 44:169
Sphyraenidae, 44:169
Spicata
bottaceps, 46:94, 46:95
rara, 46:95
Spider-mediated flower alteration on seed production in golden-eye phlox, the effect of, James R. Ott,

Jim A. Nelson, and Traci Caillouet, 43:430–436
Spiegel, Linda K., Michael F. Small, Judith Tom, and Tony C. Dao, An occurrence of long-range movement in the California pocket mouse (*Chaetodipus californicus*), 40:225–226
Spilogale, 37:325, 38:164, 45:335
gracilis, 39:257–262, 39:354–357, 45:508
putorius, 39:257, 39:260, 39:354, 39:356, 40:227–228
pygmaea, 44:234
Spinitectus
carolini, 41:289, 41:290, 44:523, 44:524
gracilis, 45:362–365
Spiranthes
aestivalis, 37:300
cinnabarina, 37:302
delitescens, 37:299–303
graminea, 37:299
michuacana, 37:302
parksii, 42:376
spiralis, 37:300–302
vernalis, 45:434, 45:435, 45:441
Spirodela
polyrhiza, 45:418
polyrrhiza, 45:418
Spirogyra, 39:386, 42:266
Spirostreptidae, 37:110
Spiroxys, 40:329
Spirurida, 42:329–332
Spitzer, Brian W., see Agrawal, Anurag A. —
Spiza americana, 37:389, 37:390, 39:198
Spizella
arborea, 39:146
atrogularis, 37:389
breweri, 42:140, 42:227, 43:456
pallida, 37:389, 42:140
passerina, 37:389, 38:46, 40:232, 40:358, 42:140, 42:227, 43:456
Splachnobryum obtusum, 45:230
Spondia mombin, 38:27, 38:28
Spondias purpurea, 44:202
Sporobolous
airoides, 44:195
cryptandrus, 44:195
flexuosus, 44:195
Sporobolus, 38:225, 38:275, 41:184, 42:224, 43:165, 43:166, 45:47, 45:444, 46:241, 46:247
airoides, 39:2, 42:138, 42:417, 43:54, 43:55, 43:313, 43:315, 43:316, 43:318, 44:195, 44:437, 45:386, 45:414
asper, 39:197, 42:443, 44:433, 45:412–414, 45:417
clandestinus, 37:369
contractus, 38:229, 39:122–127, 39:345
cryptandrus, 38:226, 38:229, 39:96, 40:137, 41:216, 42:138, 42:253, 42:254, 43:54, 43:450, 44:195, 44:434, 44:436, 45:408, 45:409, 45:414, 46:173, 46:285
flexuosus, 39:122, 39:125, 39:342, 39:345–347, 41:240, 43:270, 43:450, 44:195, 45:315, 45:316
heterolepsis, 37:368, 37:369
interruptus, 46:285
neglectus, 37:367–370
texanus, 43:315, 43:318
tharpii, 45:431, 45:433, 45:434, 45:436, 45:439, 45:442
vaginaeflorus, 45:102, 45:103
vaginiflorus, 44:436
virginicus, 44:267, 45:431, 45:434, 45:435, 45:437–439, 45:442
wrightii, 37:78, 46:250
Sporobulus airoides, 40:355
Sporophila
aurita, 43:232
torqueola, 43:232, 44:535–538
Spotted bat (*Euderma maculatum*) in Nevada, including notes on reproduction, distribution of the, Keith Geluso, 45:347–352
Spotted skunk *Spilogale putorius* (Carnivora: Mustelidae) in the state of Durango, Mexico, first record of the, Jorge Servín, Carmen Huxley, and Elias Chacón, 40:227–228
Springer, Craig L., see Pittenger, John S., and —
Spryeria atlantis, 44:376, 44:377
Squatinella mutica, 45:367, 45:368, 45:370, 45:372
Stable isotope signatures of native and nonnative fishes in upper Colorado River backwaters and ponds, Patrick J. Martinez, Brett M. Johnson, and Joshua D. Hobgood, 46:311–322
Stactobiella delira, 39:252
Stafford, Angela D., see Hager, Stephen B., and —
Stagnicola, 38:293
cockerelli, 37:206–208
Stahlecker, Dale W., see Kennedy, Patricia L., —
Stahlecker, Dale W., Wide disparity in age of nestlings in a Say's phoebe nest from New Mexico, 44:540–542
Stangl, Frederick B., Jr., First record of *Sigmodon fulviventer* in Texas: natural history and cytogenetic observations, 37:213–214
Stangl, Frederick B., Jr., Gregory F. Birkenfeld, and Steven M. Shoen, First record of the California kangaroo rat, *Dipodomys californicus* (Rodentia: Heteromyidae), from Nevada, 44:240–241
Stangl, Frederick B., Jr., see Austin, Terry A., and —
Stangl, Frederick B., Jr., see Dalquest, Walter W., —
Stanleya pinnata, 44:436, 44:442
Staphylea
trifolia, 44:427
trifoliata, 45:400, 45:401, 45:410
Staphylinidae, 37:105, 37:106, 44:508, 45:464, 45:468
Staphylinus, 45:464
Staphylococcus, 38:74
sciuri, 38:75
xylosus, 38:75
Stapp, Paul, Size and habitat characteristics of home ranges of northern grasshopper mice (*Onychomys leucogaster*), 44:101–105
Stapp, Paul, Small mammal predation on darkling beetles (Coleoptera: Tenebrionidae) in pitfall traps, 42:352–355
Stark, Lloyd R., and Alan T. Whittemore, Bryophytes from the northern Mojave Desert, 45:226–232
Stark, William J., see Wenke, Thomas L., —
Stator
beali, 38:385–387
limbatus, 38:385–387
pruininus, 38:386
Status, distribution, and summer food habits of black bears in Big Bend National Park, Eric C. Hellgren, 38:77–80
Staurosira construens, 46:205
Steatoda borealis, 45:462
Stefferud, Jerome A., and David L. Propst, Fish fauna of the Bavícora Basin, Chihuahua, Mexico, 41:446–450
Stefferud, Jerome A., see Propst, David L., —
Steidl, Robert J., see Tull, John C., —
Steiert, Jack, see Thomas, R. Brent, —
Steigman, Kenneth L., see Morris, John R., and —
Stelgidopteryx serripennis, 37:400, 38:62, 42:226
Stellaria media, 45:103
Stellula calliope, 46:116
Stem diameter-age relationships of *Tamarix ramosissima* on lake shore and stream sites in southern Nevada, Sandra L. Haigh, 43:425–429
Stemmadenia, 43:276
Stemodia lanata, 45:434, 45:435, 45:437, 45:442
Stenacron, 38:256
interpunctatum, 39:60
Stenella
attenuata, 41:279, 41:283
clymene, 41:279, 41:283
coeruleoalba, 41:283
frontalis, 41:282, 41:283
longirostris, 41:283

Stenelmis calida, 42:496
Stenistomera
alpina, 46:95
macrodactyla, 46:95
Steno bredanensis, 41:283
Stenocereus, 37:429, 39:178, 41:187
griseus, 41:267, 41:268
stellatus, 43:29, 43:39
thurberi, 41:257, 41:258, 41:315, 42:241, 46:261–271, 46:273
Stenoderma rufum, 37:415–418
Stenomidae, 38:3
Stenonema
exiguum, 39:60, 39:61
femoratum, 39:60, 39:61
integrum, 39:60
mediopunctatum, 39:60, 39:61
pulchellum, 39:60
terminatum, 38:268, 39:60, 39:61
Stenoponia
americana, 46:95
ponera, 46:95
Stephanodiscus, 46:205
Stephens, Matt J., and Dean A. Hendrickson, Larval development of the Cuatro Ciénegas cichlid, *Cichlasoma minckleyi*, 46:16–22
Stercorariidae, 41:355
Sterculiaceae, 43:276
Stern, Sharon Maynard, and Denton Belk, Confirmation of *Branchinecta paludosa* (Crustacea, Anostraca) in Utah, 44:212–213
Sterna, 39:186, 39:287
antillarum, 37:199, 38:9–14, 41:307–314, 42:279, 45:483–489
elegans, 38:60, 38:62
paradisaea, 41:313
sandvicensis, 42:58
Sternella neglecta, 40:94
Sternopsylla distincta, 46:95
Sternotherus
carinatus, 43:6
odoratus, 43:6
Stevens, Lawrence E., see Brown, Bryan T., and —
Stevenson, Matthew T., see Bestelmeyer, Brandon T., and —
Stevenson, Michael M., Food habits within the Laguna Chichancanab *Cyprinodon* (Pisces: Cyprinodontidae) species flock, 37:337–343
Stevia monardaefolia, 37:92
Stewart, Bruce G., Jeremy G. Knight, and Robert C. Cashner, Longitudinal distribution and assemblages of fishes of Byrd's Mill Creek, a southern Oklahoma Arbuckle Mountain stream, 37:138–147
Stewart, Carol L., see Gutberlet, Ronald L., Jr., —
Stewart, Kenneth W., see DeWalt, R. Edward, —
Stewart, Kenneth W., see Moring, J. Bruce, and —
Stewart, Kenneth W., see Moulton, Stephen R., II, —
Stichostemma asensoriatum, 42:162
Stictotarsus raffii, 43:80–86
Stigmella, 38:3, 38:4
Stipa, 38:170, 43:49, 46:184, 46:283, 46:286
comata, 38:286, 40:137, 44:436, 46:285, 46:287, 46:288, 46:292
leuchotricha, 44:12
leucotricha, 40:274, 41:27–34, 41:253, 42:194, 42:252–254, 42:443, 44:11, 44:14
pringlei, 46:285, 46:288
spartea, 40:137, 44:429, 44:434
speciosa, 41:32
viridula, 41:32
Stizostedion
canadense, 41:313, 42:283, 42:284
vitreum, 37:28, 37:33, 38:401, 40:214, 41:167, 41:313, 42:283, 44:390
Stone, H. Sheridan, see Morrison, Michael L., —
Stone, Karen D., see Caster, Paul T., —
Stone, Paul A., Movements and demography of the Sonoran mud turtle, *Kinosternon sonoriense*, 46:41–53
Storage on tannin and protein content of cached acorns, effects of, Walter D. Koenig and Stanley H. Faeth, 43:170–175
Storeria
dekayi, 40:122
storerioides, 39:173
Storz, Jay F., and Charles F. Williams, Summer population structure of subalpine bats in Colorado, 41:322–324
Stotz, Nancy G., and Russell P. Balda, Cache and recovery behavior of wild pinyon jays in northern Arizona, 40:180–184
Stratiomyidae, 37:171, 37:173, 44:24
Stream by Mexican howler monkeys, use of a, Juan C. Serio-Silva and Victor Rico-Gray, 45:332–333
Streptocara crassicauda, 39:205
Streptocephalidae, 39:206
Streptocephalus, 45:111
dorothae, 42:263
mackini, 38:85
sealii, 42:259–263
texanus, 38:389, 39:206, 42:259, 42:261–263
wootloni, 38:389, 38:390
Streptococcus, 38:74
faecalis, 38:75
faecium, 38:75
Streptomyces, 38:33
Streptopelia risoria, 37:291
Streptopus fassettii, 43:212
Strigidae, 42:226, 44:508
Striped bass in the Colorado River in Grand Canyon, Arizona, captures of, Richard A. Valdez and William C. Leibfried, 44:388–392
Strix occidentalis, 37:344, 42:132–136, 46:363
Stroh, Terry L., see Propst, David L., —
Stromberg, Mark R., see Neal, Paul R., —
Strongyloides, 40:326
Strongylura notata, 44:168
Strongyluris similis, 40:331–333
Strontium and rubidium tracers to characterize nutrient uptake patterns in creosotebush and mesquite, using, Mengchi Ho, Rachel E. Roisman, and Ross A. Virginia, 41:239–247
Strophitus
edentulus, 41:326
undulatus, 41:326, 41:327
Strophostyles
helvola, 45:18, 45:19
leiosperma, 40:137
Structural and taxonomic correlates of habitat selection by a Puerto Rican land snail, Michael R. Willig, Elizabeth A. Sandlin, and Michael R. Gannon, 43:70–79
Structure and habitat associations of Devils River fish assemblages, Nora E. Valdes Cantu and Kirk O. Winemiller, 42:265–278
Strumigenys
louisianae, 38:138, 38:139
silvestrii, 46:397, 46:398, 46:400
Strymon melinus, 39:142
Stuart, James N., see Bermudez, Francisca C., —
Stuart, James N., see Morjan, Carrie L., and —
Stuart, James N., see Valdez, Ernest W., —
Stubblefield, Cynthia H., Food habits of black bear in the San Gabriel Mountains of southern California, 38:290–293
Sturnella, 46:119
magna, 37:73, 38:46, 39:198, 42:227
neglecta, 37:389, 37:399, 37:400, 38:63, 39:92, 40:97, 40:347, 40:358, 42:227, 43:456, 44:486
Sturnidae, 44:508
Sturnira, 44:233
erythromos, 44:327
lilium, 38:81, 39:281, 40:33, 44:327, 45:344
ludovici, 43:496
oporaphilum, 44:327
Sturnus vulgaris, 37:297, 37:399, 40:95, 43:457, 44:312, 45:32
Stygobromus, 42:497, 42:499, 42:500
Styrmon melinus, 44:378
Suaeda, 40:403

depressa, 44:438, 44:439, 45:420
divaricata, 42:490, 42:492
esteroa, 40:399
fruticosa, 40:402
linearis, 44:267, 44:268, 45:439, 45:441
maritima, 40:396
moquinii, 40:400, 40:402
pruinosa, 40:394, 40:397, 40:402
splendens, 40:396
vera, 40:394, 40:397
Suaedetum
moquinii, 40:394, 40:403
pruinosae, 40:394, 40:402, 40:403
Suaedo splendentis, 40:393, 40:395, 40:403
Suárez-Morales, E., and J. W. Reid, An updated list of the free-living freshwater copepods (Crustacea) of Mexico, 43:256–265
Suazo, Ireri, see Alvarado, Javier, —
Subgeneric identification and biostratigraphic utility of late Pleistocene prairie dogs (*Cynomys*, Sciuridae) from the Great Plains, H. Thomas Goodwin, 38:105–110
Subpilocereus
horridus, 41:267
repandus, 41:267, 41:268
Subspecies of the lizard *Sceloporus scalaris* (Reptilia: Sauria: Phrynosomatidae) from the Sierra Madre Occidental of Mexico, a new, Hobart M. Smith, Gregory J. Watkins-Colwell, Julio A. Lemos-Espinal, and David Chiszar, 42:290–301
Subspecies of the Texas blind snake (*Leptotyphlops dulcis*) without supraoculars, a, Hobart M. Smith, Frank van Breukelen, David L. Auth, and David Chiszar, 43:437–440
Substrate preference and perch height selection by hatchling lizards (*Sceloporus virgatus* and *S. clarki*), Geoffrey R. Smith and Royce E. Ballinger, 40:116–118
Successful, elevated Gambel's quail nest in a suburban area, a, Bruce C. Thompson, 38:174–175
Succinea, 42:472, 42:473
Succineidae, 38:295
Sugg, Derrick W., Lee A. Fitzgerald, and Howard L. Snell, Growth rate, timing of reproduction, and size dimorphism in the southwestern earless lizard (*Cophosaurus texanus scitulus*), 40:193–202
Sugg, Derrick W., see Heske, Edward J., —
Suidae, 43:228
Summer diet of orchard orioles in southwestern Nebraska, William C. Scharf and Josef Kren, 42:127–131
Summer emergence of mayflies, stoneflies, and caddisflies from a Colorado Mountain stream, R. Edward DeWalt, Kenneth W. Stewart, Stephen R. Moulton, II, and James H. Kennedy, 39:249–256
Summer nests of Preble's meadow jumping mouse, Thomas R. Ryon, 46:376–378
Summer population structure of subalpine bats in Colorado, Jay F. Storz and Charles F. Williams, 41:322–324
Sundt, Peter C., see McClaran, Mitchel P., and —
Superspecies concept of the lizard *Sceloporus undulatus*: *S. u. belli*, a species, a contribution to the, Julio A. Lemos-Espinal, Hobart M. Smith, Royce E. Ballinger, Geoffrey R. Smith, and David Chiszar, 43:20–24
Supplemental feed for ungulates by non-target species, use of, Billy C. Lambert, Jr. and Stephen Demarais, 46:118–121
Suppression of saguaro cactus flowerbud formation by roosting vultures in Arizona, Peter S. Bennett and Michael R. Kunzmann, 39:200–203
Surface activity of the San Diego horned lizard, *Phrynosoma coronatum blainvillii*, Stephen B. Hager and Bayard H. Brattstrom, 42:339–344
Surface-active arthropod communities in native and exotic riparian vegetation in the middle Rio Grande Valley, New Mexico, Lisa M. Ellis, Manuel C. Molles, Jr., Clifford S. Crawford, and Frederick Heinzelmann, 45:456–471
Surface-active arthropods of shortgrass prairie: new county and state records from New Mexico, Sandra L. Brantley, Paulette L. Ford, Richard A. Fagerlund, and David C. Lightfoot, 46:207–209
Surivella
angusta, 46:205
crumena, 46:205
ovalis, 46:205
striatula, 46:205
Surveyor experience on frequency of recapture in pierid butterflies, the effect of, Eric W. Hein and Orrin B. Myers, 45:67–69
Survival and home ranges of opossums in northeastern Kansas, Philip S. Gipson and Jan F. Kamler, 46:178–182
Survival of *Gambusia affinis* in a hostile environment, Clark Hubbs, 45:521–522
Survival of mesquite seedlings emerging from cattle and wildlife feces in a semi-arid grassland, B. A. Kramp, R. J. Ansley, and T. R. Tunnell, 43:300–312
Sus scrofa, 39:92, 42:33–39, 45:472, 46:118
Suttkus, Royal D., see Fitzpatrick, J. F., Jr., and —
Sutton, Kari, John T. Baccus, and Max S. Traweek, Jr., Habitat of *Ancistrocactus tobuschii* (Tobusch fishhook cactus, Cactaceae) on the Edwards Plateau of central Texas, 42:441–445
Suwallia
lineosa, 39:249–252, 39:254, 39:255
pallidula, 39:251, 39:252
Swallow-tailed kite nesting in Texas: past and present, Raymond E. Brown, J. Howard Williamson, and Dan B. Boone, 42:103–105
Swann, Alisa L., see Agrawal, Anurag A. —
Swanson, David A., and John H. Rappole, Breeding biology of the eastern white-winged dove in southern Texas, 38:68–71
Swanson, David A., and John H. Rappole, Status of the white-winged dove in southern Texas, 37:93–97
Swanson, David L., Jeffrey S. Palmer, Eric T. Liknes, and Kurt L. Dean, A breeding population of Virginia's warblers in the southwestern Black Hills of South Dakota, 45:39–44
Sweet, Merrill H., II, see Gould, Georgianna G., and —
Sweet, Merrill H., III, see Schmid, Jennifer L., —
Sweltsa
borealis, 39:250, 39:251
coloradensis, 39:249, 39:250, 39:251, 39:254
lamba, 39:250, 39:251
Swepston, Danny A., see Kamler, Jan F., —
Swertia perennis, 43:212
Swietenia, 45:132
macrophylla, 38:80, 38:403, 43:229, 45:340
Swift fox in rangeland and cropland in western Kansas: relative abundance, mortality, and body size, the, Raymond S. Matlack, Philip S. Gipson, and Donald W. Kaufman, 45:221–225
Swift-Miller, Susan M., Brett M. Johnson, and Robert T. Muth, Factors affecting the diet and abundance

of northern populations of Rio Grande sucker (*Catostomus plebeius*), 44:148–156
Swift-Miller, Susan M., Brett M. Johnson, Robert T. Muth, and David Langlois, Distribution, abundance, and habitat use of Rio Grande sucker (*Catostomus plebeius*) in Hot Creek, Colorado, 44:42–48
Syarinidae, 41:145–148
Sylvatic plague in the Mexican prairie dog (*Cynomys mexicanus*), survey for, Julián Treviño-Villarreal, Ilona M. Berk, Alonso Aguirre, and William E. Grant, 43:147–154
Sylvilagus, 37:61, 37:62, 37:358, 38:164, 39:287, 40:182, 43:54, 43:106, 43:344, 43:394
aquaticus, 44:408
auduboni, 38:309–315
audubonii, 37:56, 37:57, 38:198, 39:91, 40:344, 41:130, 45:206, 45:335
bachmani, 41:455–457
floridanus, 37:56, 37:57, 39:379, 40:162, 42:37, 45:473
mansuetus, 41:455–457, 41:459
transitionalis, 41:456
Symbiotic relationship between cellulolytic bacteria and a freshwater herbivorous turtle, evidence of a, R. Brent Thomas, Don Moll, and Jack Steiert, 39:386–388
Symbos, 41:190
Symphoricarpos, 41:229, 45:39
occidentalis, 44:436
orbiculatus, 37:369, 40:162, 45:401, 45:403, 45:405, 45:407, 45:409, 45:412, 46:377
Symphoricarpus orbiculatus, 44:407
Symploaceae, 43:74
Symplocarpus, 37:111, 37:114
Symplocos
martinicensis, 43:74
matinicensis, 43:75
Synalpheus, 44:462
Synaptomys
australis, 37:54, 37:59–63
cooperi, 37:60, 37:62, 40:162, 45:45, 45:48, 45:50
Synatzske, David R., see Ruthven, Donald C., III, —
Synbranchidae, 44:168
Syncalypta grisea, 37:107
Synchaetidae, 45:369
Syndera ulna, 46:205
Synedra
acus, 37:150
delicatissima, 46:205
incisa, 37:150
ulna, 37:150
Synnevrus aequalis, 43:251
Syntopy between two species of long-eared bats (*Myotis evotis* and *Myotis auriculus*), William L. Gannon, 43:394–396
Syntrichia
caninervis, 45:230
norvegica, 45:230
obtusissima, 45:230
princeps, 45:230
ruralis, 45:230
Synuchus impunctatus, 37:105, 37:106
Syrbula
admirabilis, 37:364, 37:365, 37:368, 46:207, 46:209
montezuma, 39:22
Syringodium filiforme, 42:40
Syrphidae, 38:170
Systematic relationships of the endangered Queretaro pocket gopher (*Cratogeomys neglectus*), Tiberio Monterrubio, James W. Demastes, Livia Leon-Paniagua, and Mark S. Hafner, 45:249–252
Systematic review of the Mexican frog *Rana megapoda* Taylor (Anura: Ranidae), a, Robert G. Webb, 41:35–42
Systematic status of the San Luis Potosí black-headed snake, *Tantilla deviatrix* Barbour (Colubridae), Roy W. McDiarmid, 37:303–307
Systematics and zoogeography of the Mer Rouge pocket gopher (*Geomys breviceps breviceps*) based on cytochrome-β sequences, James W. Demastes, 39:276–280
Systematics of the *Cyprinella lutrensis* group (Cyprinidae) from the southwestern United States as inferred from variation of mitochondrial DNA, Linda R. Richardson and John R. Gold, 44:49–56
Szarek, Stan R., Barbara Driscoll, Cecile Shohet, and Steve Priebe, Bulbil production in *Agave* (Agavaceae) and related genera, 41:465–469

Tabanidae, 37:171, 38:86, 39:206, 44:24
Tabanus, 44:24
fairchildi, 38:87
punctifer, 39:206, 39:207
vivax, 38:87
Tabatabai, Farinaz, see Bradford, David F., —
Tabebuia
heterophylla, 38:403
rosea, 38:179
Tabularia
fasciculata, 46:205
tabulata, 46:205
Tacha, Thomas C., see Anderson, James T., —
Tacha, Thomas C., see Ballard, Bart M., and —
Tacha, Thomas C., see Schneider, Jon P., —
Tachycineta
bicolor, 37:388, 37:389, 37:398, 37:400, 40:99
thalassina, 37:388, 40:95, 40:357, 42:226
Tachytes werneri, 43:250
Tadarida, 38:111, 38:115, 38:117
brasiliensis, 38:75, 39:177, 41:275–278, 43:484–490, 44:326, 44:327, 44:345, 44:398, 44:405, 44:414, 44:415, 44:495, 44:497, 44:502–504, 44:506, 44:542–543, 45:339, 45:350, 46:373
braziliensis, 43:266
Taenia multiceps, 43:477
Taenionema pallidum, 39:251
Taeniopterygidae, 39:251
Talauma mexicana, 37:427
Talent, Larry G., see Oakey, David D., —
Talinum
calcaricum, 38:96, 42:391
parviflorum, 44:442
Talpa europaea, 46:211
Tamandua mexicana, 37:88–89, 46:252
Tamarisk, 43:116
chinensis, 37:188, 46:312
Tamarix, 40:260–263, 40:265, 40:409, 42:14, 42:138, 42:357, 44:149, 45:160, 45:338, 45:438, 45:456
aphylla, 40:264
chinensis, 40:407, 44:226, 44:278, 44:279, 45:388, 45:409, 45:411
dioica, 40:259
gallica, 41:137
passerinoides, 40:259
pentandra, 38:59, 38:72, 38:208
ramosissima, 39:26, 39:137, 40:259, 40:264, 42:13, 42:156, 43:425–429, 45:457
Tamias
amoenus, 41:88–90
minimus, 43:125, 43:139, 43:352–362
panamintinus, 43:125
quadrivitattus, 37:61
speciosus, 41:88
striatus, 43:353, 43:359
Tamiasciurus hudsonicus, 38:30, 40:341, 41:356, 45:157, 45:256
Tantilla
annulata, 40:122
atriceps, 40:122
bocourti, 37:303–307, 39:173, 40:122
boulengeri, 45:142, 45:150
briggsi, 40:122, 43:375
calamarina, 39:173, 40:122
canula, 40:122
cuscatlae, 40:122
coronadoi, 40:122
coronata, 37:303–305
cucullata, 45:141–144, 45:149–151
cuniculator, 40:122, 43:375

deppei, 39:173, 40:122
deviatrix, 37:303–307
diabola, 45:141, 45:142, 45:144
flavilineata, 40:122, 43:375
gracilis, 40:122
hobartsmithi, 40:122
jani, 40:122, 43:375
miniata, 45:141–143, 45:148, 45:150, 45:151
miniator, 45:141, 45:142, 45:151
muesta, 40:122
morgani, 45:141–143, 45:148, 45:150
nigriceps, 40:122, 43:443, 43:445, 46:174
oaxacae, 40:122, 43:375
phrenitica, 45:142, 45:150
planiceps, 40:122
reticulata, 40:122
rubra, 37:304–307, 40:122, 45:141–153
schistosa, 45:142
semicincta, 40:122
shawi, 40:120–123
slavensi, 40:122, 43:375
striata, 40:122, 43:375
supracincta, 40:122
taeniata, 40:122, 43:374, 43:375
tayrae, 40:122, 43:375
triseriata, 43:374–375
wilcoxi, 37:303–307, 40:122
yaquia, 40:122
Tanytarsus, 39:206
Tapinoma sessile, 44:278, 44:280–283, 45:460, 45:465, 45:468
Tapirus bairdii, 46:252
Taraba major, 43:231
Tarango, Luis A., Raul Valdez, Phillip J. Zwank, and Manuel Cardenas, Mexican spotted owl habitat characteristics in southwestern Chihuahua, Mexico, 42:132–136
Tarantula spider (Araneae, Mygalomorphae, Theraphosidae) from the Cayo District of Belize, a new species of, Steven B. Reichling and Rick C. West, 45:128–132
Taraxacum officinale, 40:137, 43:358
Targionia hypophylla, 45:228, 45:231
Targonia heterophylla, 45:231
Tarrant, Billy L., see Zwank, Phillip J., —
Tarsophyllus octodecimdentata, 46:95
Tartarocreagris, 41:145
Taulman, James F., Observations of nest construction and bathing behaviors in the nine-banded armadillo, *Dasypus novemcinctus*, 39:378–380
Taulman, James F., Ronald E. Thill, and James H. Williamson, Double captures of small mammals in single-capture traps: random encounters or social traveling?, 39:358–363
Taxidea taxus, 37:61, 37:325, 40:288–292, 41:48, 44:181, 45:206, 45:335, 45:473
Taxodium distichum, 42:156, 44:242, 45:386, 45:405
Taxonomic changes associated with the names *Hyla spinipollex* Schmidt and *Ptychohyla merazi* Wilson and McCranie (Anura: Hylidae), James R. McCranie and Larry David Wilson, 38:100–104
Taxonomic status of *Nototriton sanctibarbarus* McCranie and Wilson (Amphibia: Caudata), on the, David B. Wake, 43:88–91
Taxonomy of *Tantilla rubra* and allied taxa (Serpentes: Colubridae), the, James R. Dixon, R. Kathryn Vaughan, and Larry David Wilson, 45:141–153
Taxus globosa, 45:239
Tayassu, 40:295
tajacu, 37:325, 37:434, 38:65, 38:78, 38:198, 38:210, 38:345–351, 42:33
Taylor, Christopher M., and Philip W. Lienesch, Environmental correlates of distribution and abundance for *Lythrurus snelsoni*: a range-wide analysis of an endemic fish species, 40:373–378
Taylor, Christopher M., and Steven M. Norris, Notes on the reproductive cycle of *Notropis hubbsi* (bluehead shiner) in southeastern Oklahoma, 37:89–92
Taylor, Christopher M., Mark Pyron, and Matthew R. Winston, Zoogeographic implications for the first record of *Crystallaria asprella* (Percidae) from the Kiamichi River drainage, and for the occurrence of *Notropis boops* (Cyprinidae) and *Luxilus chrysocephalus* (Cyprinidae) in the Wichita Mountains, Oklahoma, 38:302–303
Taylor, Christopher M., see Fiorillo, Riccardo A., —
Taylor, Frances R., and John W. Pedretti, Morphometric comparison of pupfish populations, *Cyprinodon nevadensis*, at Shoshone and Tecopa, California, 39:300–303
Taylor, Frances R., see Deacon, James E., —
Taylor, Harry L., see Paulissen, Mark A., —
Taylor, Harry L., see Walker, James M.,—
Taylor, J. Scott, and Fred S. Guthery, Components of northern bobwhite brood habitat in southern Texas, 39:73–77
Taylor, Richard B., and Eric C. Hellgren, Diet of feral hogs in the western South Texas Plains, 42:33–39
Teiidae, 37:82–86, 38:164, 38:377–381, 39:235–240, 41:64–67, 43:9, 45:527–533
Telabis aliena, 45:309
Telebasis, 38:159
Telema, 42:499
Teleostei, 38:246–251, 39:217–223, 39:224–234, 39:241–248, 39:263–268, 40:297–300, 44:214–218
Teleostomi, 40:107–110
Tembo, Ackim, see Holechek, Jerry L., —
Temperature effects on seed germination of *Cordia boissieri* A. DC. (Boraginaceae), Timothy E. Fulbright, 37:197–199
Temperature on escape behavior in the cribellate spider, *Oecobius annulipes* (Araneae, Oecobiidae), effects of, Vincent A. Cobb, 39:391–394
Temperature requirements for dormancy break and germination in achenes of the winter annual *Lindheimera texana* (Asteraceae), Carol C. Baskin, Jerry M. Baskin, and O. W. Van Auken, 40:268–272
Tenebrio molitor, 43:292, 43:485
Tenebrionid species richness and distribution in the Coachella Valley sand dunes (Coleoptera: Tenebrionidae), Cameron W. Barrows, 45:306–312
Tenebrionidae, 37:107, 37:111, 40:162, 42:352–355, 44:379–382, 45:306–312, 45:459, 45:464, 46:209, 46:241
Terenotriccus erythrurus, 43:231
Terminalia catappa, 38:24, 38:27
Terranella, Anthony C., Lisa Ganz, and James J. Ebersole, Western harvester ants prefer nest sites near roads and trails, 44:382–384
Terrapene
carolina, 42:233
ornata, 43:9, 43:443, 43:445, 46:173, 46:174
Terrestrial birds on the islands of Mono Lake, California, current status of, Linnea S. Hall, Michael L. Morrison, and William M. Block, 39:183–187
Terrestrial plant communities of the middle Niobrara Valley, Nebraska, Gail E. Kantak, 40:129–138
Territory size in Lincoln's sparrows (*Melospiza lincolnii*), Emily Wortman-Wunder, 42:446–453
Tershy, Bernie R., and Dawn Breese, Color preference of the island endemic lizard *Uta palmeri* in relation to rat eradication campaigns, 39:295–297
Tessaria, 40:262, 40:265
sericea, 39:27, 39:137, 40:259, 40:264, 43:234
Testudinella
caeca, 45:369
patina, 45:369
Testudinellidae, 45:369
Testudo, 42:38

Tetragastris balsamifera, 43:74, 43:75
Tetrameres, 39:205
crami, 39:204
Tetraodontidae, 44:169
Tetrapleurodon, 39:105–113
geminis, 41:366
spadiceus, 41:366
Tetrapleurodon, 41:365–374
Tettigoniidae, 37:170, 43:297
Teucrium canadense, 45:403, 45:408
Tewes, Michael E., see Harveson, Louis A., —
Tewes, Michael E., see Shindle, David B., and —
Tewes, Michael E., see Walker, Christopher W., —
Texas freshwater fish assemblages following three decades of environmental change, Allison A. Anderson, Clark Hubbs, Kirk O. Winemiller, and Robert J. Edwards, 40:314–321
Texas rat snake (*Elaphe obsoleta lindheimeri*) eggs and hatchlings from a communal nest, Donald R. Clark, Jr. and Grey W. Pendleton, 40:203–207
Thalassia testudinum, 41:419, 41:422, 42:45
Thalia dealbata, 45:416
Thalictrum dasycarpum, 45:400
Thalurania furcata, 43:231
Thamnocephalus, 42:262
mexicanus, 38:85, 38:86
platyurus, 42:259–261, 42:263
Thamnophilus doliatus, 43:231
Thamnophis, 44:481, 46:57, 46:363
dorsalis, 39:173
elegans, 39:55, 39:56, 45:173, 46:111
marcianus, 43:11
proximus, 43:17
scalaris, 39:173
sirtalis, 42:233, 43:11, 43:18
sumichrasti, 40:122
Thanatophilus lapponica, 40:50, 40:52–54
Theaceae, 44:508
Thelesperma
curvicarpum, 42:242–244
filifolia, 45:413, 45:414, 45:417
filifolium, 42:242–244
megapotamicum, 38:229
simplicifolium, 42:183, 42:242–244
Thelesperma curvicarpum (Asteraceae), an achene form in populations of *T. simplicifolium* var. *simplicifolium* and *T. filifolium* var. *filifolium*, Lee F. Greer, 42:242–244
Thelypteridaceae, 43:74
Thelypteris deltoidea, 43:74
Theobroma, 42:410
cacao, 40:57
Theraphosidae, 44:518, 45:128–132, 45:299
Theraphosids from western Mexico (Araneae, Mygalomorphae), some new, Rick C. West, 45:299–305
Theridiidae, 45:462
Theridion saxatile, 39:391
Thermal ecology of the lizard *Sceloporus mucronatus mucronatus* in Sierra del Ajusco, Mexico, Julio A. Lemos-Espinal, Royce E. Ballinger, Susy Sanoja Sarabia, and Geoffrey R. Smith, 42:344–347
Thermal responses of the *Dicroprocta cinctifera* species group (Homoptera: Cicadidae), Allen F. Sanborn and Polly K. Phillips, 41:136–139
Thermocyclops
inversus, 43:259, 43:261
tenuis, 43:259
Thermonectus basillaris, 42:261
Thermopsis divaricarpa, 43:210, 43:214
Thermus aquaticus, 45:250
Thero, 40:388, 40:390
Therrien, James P., Genetic diversity in two rare milkweeds from the southwestern United States, 44:247–255
Thiara tuberculata, 43:283
Thiaridae, 43:283–286
Thibault, Katherine M., see Adams, Rick A., and —
Thies, Kathleen M., Monte L. Thies, and William Caire, House construction by the southern plains woodrat (*Neotoma micropus*) in southwestern Oklahoma, 41:116–122
Thies, Monte L., see Ostrand, Kenneth G., —
Thies, Monte L., see Thies, Kathleen M., —
Thill, Ronald E., see Taulman, James F., —
Thinning of Emory oak coppice: effects on growth, yield, and harvesting cycles, Ramzi Touchan and Peter F. Ffolliott, 44:1–5
Thiothrix, 41:328–331
Thiothrix sp. (Beggiatoaceae) from tadpoles in western Mexico, Paulette L. Ford and Norman J. Scott, Jr., 41:328–331
Thomas, R. Brent, Don Moll, and Jack Steiert, Evidence of a symbiotic relationship between cellulolytic bacteria and a freshwater herbivorous turtle, 39:386–388
Thomas, R. Brent, see Fiorillo, Riccardo A., —
Thomisidae, 43:430, 43:431, 45:462, 46:209
Thomomys, 37:232, 40:53
bottae, 37:61, 37:62, 39:92, 39:158, 39:364–370, 40:51, 40:344, 40:410, 40:411, 40:413, 42:3, 44:74, 44:76, 44:175, 44:176, 44:178–181, 46:94
bulbivorus, 40:410
mazama, 44:77
monticola, 44:175, 44:177, 44:180, 44:181
talpoides, 39:158, 41:190, 42:353, 43:106, 43:345, 44:74–76, 44:102, 44:105, 44:174–176, 44:178–181, 46:209–213
umbrinus, 46:363
Thompson, Bruce C., A successful, elevated Gambel's quail nest in a suburban area, 38:174–175
Thompson, J. Rock, Vernon C. Bleich, Steven G. Torres, and Gerald P. Mulcahy, Translocation techniques for mountain sheep: does the method matter?, 46:87–93
Thompson-Gorozpe, Alberto, see Roberts, Heather R., —
Thorbjarnarson, John B., see Platt, Steven G., —
Thorichthys meeki, 44:168
Thorn, Terri D., and Phillip J. Zwank, Actual and estimated protein and lipid content of cinnamon teal migrating through New Mexico, 40:229–231
Thorybes mexicanus, 44:376–378
Thrassis
aridis, 46:95
bacchi, 46:95
fotus, 43:147, 43:149, 43:150, 43:154, 46:95
stanfordi, 46:95
Threloff, Doug, see Shepard, William D., and —
Threnetes ruckeri, 43:231
Threskiornithidae, 38:61, 41:345
Thryomanes bewickii, 37:388, 37:401, 38:73, 40:86, 40:167, 40:357, 42:140, 42:226
Thryothorus
ludovicianus, 37:388
maculipectus, 43:231, 43:232
Thubunaea intestinalis, 40:331–333
Thurow, T. L., see Yoder, C. K., —
Thymophylla tephroleuca, 42:38
Thyreodon
flammipennis, 44:87
mori, 44:87
Thysanophora hornii, 42:472, 42:473
Tidestromia lanuginosa, 43:450
Tidestromia lanuginosa, 38:208, 45:435, 45:441
Tietje, William D., and Justin K. Vreeland, Molt of northern shovelers wintering in South Texas, 42:454–459
Tigoma nigrescens, 39:225
Tilapia, 37:343
aurea, 37:262–266
mossambia, 41:75
mossambica, 45:516, 45:520
zillii, 46:103
Tilia americana, 40:130, 40:131, 40:135, 40:138, 44:427, 45:400, 45:401
Tillandsia
recurvata, 39:37
usneoides, 42:104
Time of spawning by desert sucker, Craig S. Ivanyi, Jeffrey P. Hill, and William J. Matter, 40:425–426

Timema
californicum, 45:126
cristinae, 45:123–127
Timematodea, 45:123–127
Timing of remigial molt in fulvous whistling ducks nesting in Louisiana, William L. Hohman and David M. Richard, 39:190–192
Timmia megapolitana, 45:230
Timpanoga, 38:269
hecuba, 38:266, 38:267
Tingidae, 46:209
Tinodes, 44:24
Tipton, Alan R., see Bergman, David L., —
Tipula, 44:24
rupicola, 42:499
Tipulidae, 37:170, 42:151, 44:24
Tiquila greggii, 43:197, 43:200
Tiquilia hispidissima, 44:195
Tischendorf, Jay W., Dave J. Scott, Susan D. Scott, and Bill Heicher, A sighting of a large group of pumas (*Puma concolor*), 40:226–227
Todirostrum cinereum, 43:231
Toepfer, Conrad, and John W. Fleeger, Effects of marsh-edge habitat variables on feeding success by juvenile bay whiff, *Citharichthys spilopterus* (Teleostei: Bothidae), 40:297–300
Toepfer, Conrad S., see Williams, Lance R., —
Tolmomyias sulphurescens, 43:231
Toluca lineata, 39:173
Tolypeutes, 39:378
tricinctus, 39:378
Tom, Judith, see Spiegel, Linda K., —
Tomocerus, 42:498, 42:499
Tonatia
bidens, 38:300, 44:327
brasiliense, 38:300, 45:341, 45:342, 45:344
evotis, 45:341, 45:343, 45:344
silvicola, 38:300
Tongue-flicking responses to plant chemicals by helodermatid lizards, absence of discriminatory, William E. Cooper, Jr. and Johnny Arnett, 46:405–409
Topobea, 46:403
Torpedo marmorata, 43:502
Torres, Steven G., see Thompson, J. Rock, —
Torres-Orozco B., Roberto, and Emilio Revueltas-Valle, New southernmost record of the Asiatic clam *Corbicula fluminea* (Bivalvia: Corbiculidae), in Mexico, 41:60–61
Torrez-Martinez, Norah, see Biggs, James R., —
Tortella tortuosa, 45:230
Tortopus primus, 38:268
Tortricidae, 38:3, 42:155
Tortrix viridana, 38:1, 38:5
Tortula
acaulon, 45:230
atrovirens, 45:231
aurea, 45:230
bistratosa, 45:230
inermis, 45:231
mucronifolia, 45:231
nevadensis, 45:231
norvegica, 45:230
obtusissima, 45:230
princeps, 45:230
ruralis, 45:230
Touchan, Ramzi, and Peter F. Ffolliott, Thinning of Emory oak coppice: effects on growth, yield, and harvesting cycles, 44:1–5
Towne, E. Gene, Bison performance and productivity on tallgrass prairie, 44:361–366
Townsendia, 46:286
Toxascaris, 43:477
Toxicodendron
diversilobium, 46:403
diversilobum, 39:130, 39:134, 42:2
radicans, 41:54–55, 44:407, 44:428, 45:400, 45:402–406, 45:408–410, 45:412, 46:339
rydbergii, 40:137, 44:432
Toxidendron radicans, 45:18
Toxocara, 43:477
Toxolasma
parvus, 41:326, 41:327, 42:334
texasensis, 41:327
Toxostoma, 38:175
curvirostre, 37:255, 37:386, 37:389, 38:49, 38:282, 40:357, 41:261, 42:227, 44:486
dorsale, 40:357
redivivum, 37:401
Trachemys
gaigeae, 46:230–234
scripta, 39:386, 39:387, 46:51, 46:230, 46:232, 46:233
Trachyphilus cymbius, 39:204
Trachops cirrhosus, 38:81
Trachurus symmetricus, 38:221
Trachymyrmex, 46:397, 46:400
turrifex, 44:458, 44:459
Trachyrhachis kiowa, 37:364, 37:365, 37:367, 37:368, 37:370
Trachyrhinus marmoratus, 38:236–239
Tradescantia, 37:369
occidentalis, 40:137, 44:433
ozarkana, 45:400
tharpii, 44:433
Tragia, 42:444, 43:197, 43:200
ramosa, 44:12, 45:103
urticifolia, 37:369
Trail marking by coyotes, *Canis latrans*, Bayard H. Brattstrom, 44:405–406
Tramea, 39:371, 39:373
Trammell, Melissa A., Eric P. Bergersen, and Patrick J. Martinez, Evaluation of an introduction of Colorado squawfish in a main stem impoundment on the White River, Colorado, 38:362–369
Translocated sea otters at San Nicolas Island, California, status of, Galen B. Rathbun, Brian B. Hatfield, and Thomas G. Murphey, 45:322–328
Translocation techniques for mountain sheep: does the method matter?, J. Rock Thompson, Vernon C. Bleich, Steven G. Torres, and Gerald P. Mulcahy, 46:87–93
Trauth, Stanley E., Chris T. McAllister, and Wei Chen, Microscopic eggshell characteristics in the collared lizard, *Crotaphytus collaris* (Sauria: Crotaphytidae), 39:45–52
Trauth, Stanley E., see McAllister, Chris T., —
Traverella albertana, 38:264, 38:269
Traweek, Max S., Jr., see Sutton, Kari, —
Tree sloths (Mammalia: Xenarthra) in Nicaragua and Honduras, Central America, Timothy J. McCarthy, David L. Anderson, and Gustavo A. Cruz D., 44:410–414
Trejo-Hernández, Luisa, see Rojas Agil, Mara, —
Trematoda, 45:69–71
Treviño-Villarreal, Julián, Ilona M. Berk, Alonso Aguirre, and William E. Grant, Survey for sylvatic plague in the Mexican prairie dog (*Cynomys mexicanus*), 43:147–154
Triaenodes injusta, 38:22
Triaenonychidae, 38:239
Triakis semifasciata, 38:220
Tribolium, 37:108
Tribulis terrestris, 38:229
Trichiasida hirsutus, 45:309
Trichocerca
bicristata, 45:369
braziliensis, 45:369, 45:371, 45:372
longiseta, 45:369
tenuior, 45:369
tigris, 45:369
vernalis, 45:369
weberi, 45:369, 45:371, 45:372
Trichocercidae, 45:369
Trichodectidae, 41:395
Trichogrammatidae, 37:171
Trichomonas gallinae, 46:234–237
Trichomonas gallinae in an expanding population of white-winged doves from Texas, Jason W. Glass, Alan M. Fedynich, Michael F. Small, and Steve J. Benn, 46:234–237
Trichoptera, 38:19–23
Trichostema lanatum, 38:374–376
Trichostomum suwetii, 45:231
Trichostrongylidae, 38:147, 38:148
Trichostrongylus tenuis, 40:326
Trichotria
pocillum, 45:368

tetractis, 45:368
Trichotriidae, 45:368
Trichuridae, 38:148
Trichuris
muris, 38:146–149
vulpes, 43:477
Tricorythidae, 38:267, 38:268, 39:61, 44:24
Tricorythodes, 44:24
atratus, 39:60
carpulentus, 38:267, 38:269
dimorphus, 43:81
edmundsi, 38:267
fallax, 38:267
minutus, 38:267, 38:270
Tridactylidae, 37:169, 37:170
Tridens, 44:1
albescens, 42:254
flavus, 45:405, 45:410
muticus, 41:184, 41:253, 42:443
pulchellus, 38:225
Trifolium, 40:87, 42:410
dasyphyllum, 43:208, 43:211, 43:212
hirtum, 41:131
pratense, 40:137
repens, 40:224, 44:90, 44:91
Trifurcia lahue, 45:232
Triglochin
maritimum, 40:389
maritimus, 40:399
palustre, 40:389
Trigonophallus punctifer, 41:67, 41:68
Trillium pusillum, 45:402
Trimerotropis saxatilis, 37:363–368, 37:370
Trimorphodon
biscutatus, 39:173, 40:334–335, 42:331, 43:413
tau, 39:173
Trimytis pruinosa, 37:107
Trinectes inscriptus, 44:169
Tringa
flavipes, 37:87, 37:400
melanoleuca, 37:87, 37:397, 38:62
melanoleucus, 42:225
solitaria, 37:87
Triodanis perfoliata, 45:103
Trionophus politus, 37:107
Triorphus laevis, 45:309
Triplasis, 46:241
purpurea, 38:224–226, 38:228, 38:229, 38:231–233
Tripsacum dactyloides, 45:411, 45:412
Trisetum
interruptum, 45:103
spicatum, 43:210
Triticum aestivum, 41:403, 41:404, 42:59
Tritogonia
nobilis, 41:326
tuberculata, 41:326
verrucosa, 41:326, 41:327, 42:334
Triumfetta, 43:276
Trixis
californica, 38:208, 46:5
inula, 43:276, 43:277
Trizaka pintada, 39:251, 39:254
Trochilidae, 38:62, 40:357, 42:226, 44:508
Trochosa, 45:462
terricola, 46:209
Trogidae, 45:465
Troglochthonius, 41:145
Troglodytes aedon, 40:80, 40:167, 40:355, 40:357, 42:140, 42:226, 43:456, 46:116
Troglodytidae, 38:62, 42:140, 42:226, 43:449
Troglohya, 41:145
Trogonidae, 44:508
Trollius
albiflora, 43:212
albiflorus, 43:208, 43:213
Trophidodipsas zweifeli, 39:173
Tropiduridae, 43:6
Tropidurus jacobii, 42:38
Tropisternus
ellipticus, 43:80–86
lateralis, 42:261
Tropocyclops, 43:256
extensus, 43:259
prasinus, 43:259, 43:261
Trox
punctatus, 45:465
tuberculatus, 45:465
Troyo-Diéguez, Enrique, and Aurora M. Breceda Solis-Cámara, Germinacion de *Salicornia bigelovii* Torr. (Chenopodiaceae) bajo diferentes concentraciones de Agua Marina, 37:22–27
True, C. Diane, see Diamond, David D., —
Truesdale, Harold D., and Leroy R. McClenaghan, Jr., Population genetic structure of Tecate cypress (Cupressaceae), 43:363–373
Truncilla
donaciformis, 41:326, 42:334
truncata, 41:326, 41:327, 42:334
Tryblionella
calida, 46:205
hungarica, 46:205
levidensis, 46:205
tryblionella, 46:205
Tryngites subruficollis, 37:87
Trypanosoma cruzi, 40:414
Trypargilum orizabense, 43:251
Tryponosoma brucei, 40:26
Trypoxylon orizabense, 43:251
Tubifex rubifex, 44:515, 44:516
Tubificidae, 44:514–516
Tull, John C., and Paul R. Krausman, Use of a wildlife corridor by desert mule deer, 46:81–86
Tull, John C., Paul R. Krausman, and Robert J. Steidl, Bed-site selection by desert mule deer in southern Arizona, 46:354–357
Tull, John C., see Krausman, Paul R., —
Tumlison, Creed, see Tumlison, Renn, and —
Tumlison, Renn, and Creed Tumlison, An extralimital population of *Lampetra appendix* (Petromyzontidae) in southwestern Arkansas, 44:106–108
Tumlison, Renn, and Creed Tumlison, Behavior and efficiency of juvenile armadillos (*Dasypus novemcinctus*) foraging on earthworms, 40:224–225
Tumlison, Renn, V. Rick McDaniel, and James G. Duffy, Further extension of the range of the northern pygmy mouse, *Baiomys taylori*, in southwestern Oklahoma, 38:285–286
Tunnell, T. R., see Kramp, B. A., —
Turdus, 39:146
confinus, 39:377
grayi, 43:232
migratorius, 37:389, 40:83, 40:95, 40:233, 42:129, 42:140, 43:456, 45:173
Turner, Hugh M., Seasonality of *Alloglossoides caridicola* (Trematoda: Macrodereoidiidae) infection in the crayfish *Procambarus acutus*, 45:69–71
Turner, John W., Jr., and Michael L. Morrison, Influence of predation by mountain lions on numbers and survivorship of a feral horse population, 46:183–190
Turner, Paul R., see Propst, David L., —
Turnera ulmifolia, 41:436
Turneraceae, 41:436
Turpina occidentalis, 45:425
Tursiops truncatus, 41:283
Tuttle, James, see Kester, Karen, and —
Tuttle, Merlin D., see Fleming, Theodore H., —
Tyler, Jack D., and Wesley D. Webb, Occurrence of the ringtail (*Bassariscus astutus*) in Oklahoma, 37:202–205
Tylodelphis, 41:289, 41:290
Tylomys watsoni, 38:300
Tylosis, 38:241–245
dimidiata, 38:241, 38:243–245
hilaris, 38:241–243, 38:245
jimenezi, 38:241–243, 38:245
maculatus, 38:241–243, 38:245
oculatus, 38:241–245
puncticollis, 38:241–243, 38:245
suturalis, 38:241, 38:243–245
triangularis, 38:241, 38:243–245
Tympanoctomys barrerae, 42:488–493
Tympanuchus, 45:258
pallidicinctus, 39:96–98, 43:242, 46:295
Type locality of *Sceloporus torquatus minor* Cope, 1885 (Sauria: Iguanidae), the, Robert G. Webb and Ralph W. Axtell, 39:40–44
Type series of *Bufo valliceps* Wiegmann, with the designation of a lectotype, notes on the, James R. McCranie and Gunther Köhler, 45:71–74
Typha, 37:206, 41:76, 41:207–209, 41:212, 41:213, 41:216, 43:14, 43:450, 44:343,

44:345, 44:399, 44:439, 44:443, 45:437, 46:163
angustifolia, 42:319, 44:440, 44:441, 45:415, 45:416
domingensis, 38:59, 38:64, 38:169, 42:224, 42:501, 44:440, 45:415, 45:416
latifolia, 39:27, 40:264, 44:439–441, 45:410, 45:415–417, 45:419, 45:442
Typhaceae, 41:209, 45:442
Typhaea stercorea, 37:108
Typhloroncus, 44:141
Typhocoelum, 39:204
Typhus, 45:62
Typocerus octonotatus, 46:209
Tyrannidae, 38:62, 42:140, 42:226, 42:351, 44:508
Tyrannus
dorsale, 38:46
forficatus, 40:357, 41:194, 42:226, 42:351–252
savana, 41:194–195
tyrannus, 44:486, 45:173
verticalis, 38:46, 40:99, 44:486, 44:539
vociferans, 37:388, 37:389, 40:99, 44:486, 45:173
Tyrannosaurus rex, 45:554
Tyto alba, 43:53–56, 43:235, 44:313

Ubico, Sonya R., see McLean, Robert G., and —
Udotea, 41:419
Uenoidae, 39:252
Ulmaceae, 41:209, 43:42
Ulmer, Frederick A., Jr., Northward extension of the range of Richmond's squirrel, *Sciurus richmondi*, 40:416–418
Ulmus, 38:404, 41:55, 42:177, 44:430, 45:46, 46:339
alata, 37:369, 38:275, 40:168, 42:20, 45:387, 45:401, 45:402, 45:410
americana, 37:317, 38:275, 40:131, 40:135, 40:138, 44:427–429, 45:388, 45:400, 45:402–404, 45:407, 46:179
crassifolia, 43:190, 44:33, 45:119, 45:403
pumila, 42:356, 45:392, 45:407
rubra, 45:388, 45:400, 45:402–404
Uloborus glomosus, 39:393
Ulus crassus, 45:309
Uma inornata, 42:218–223, 45:306
Umbellularia californicus, 39:166
Umbrelluria californica, 45:525
Uncinaria stenocephala, 43:477
Undescribed subspecies of red-tailed hawk from Baja California, Robert W. Dickerman, 39:375–377
Unio gibbosus, 41:326
Uniola paniculata, 44:262–268, 45:431, 45:433, 45:434, 45:436–439, 45:442
Uniomerus tetralasmus, 42:334
Unionidae, 43:321–332
Urban, James E., see Post, Diane M., and —
Urera baccifera, 43:74
Uribe-Peña, Zeferino, see Ramirez-Bautista, Aurelio, —
Urocyon
cinereoargeneteus, 45:206
cinereoargenteus, 37:393, 38:142, 38:352–356, 39:257, 39:356, 40:101, 40:288, 40:340, 40:419, 43:469, 43:478, 45:335, 45:473
littoralis, 39:257–262, 39:356, 44:83–86, 45:508
Uroderma bilobatum, 39:281
Urolophidae, 44:168
Urolophus jamaicensis, 44:168
Uromastix acanthinurus, 44:68
Urosaurus
bicarinatus, 39:172, 43:381–390
graciosus, 43:387
ornatus, 38:304–306, 39:303–305, 40:185, 40:187–191, 43:92–95, 43:387
Urosolenia, 46:202
Urotheca, 46:115
Ursus
americanus, 37:433–435, 38:77–80, 38:290–293, 39:306, 40:154, 45:258, 46:129–133
arctos, 38:290, 46:130
Urtica, 41:207, 41:209, 41:214
dioica, 44:91, 44:92
Urticaceae, 41:209, 43:74
Usher, H. D., see Hardwick, G. G., —
Usingerina moapensis, 41:17
Ustach, Paul C., see Campbell, Jonathan A., —
Uta
palmeri, 39:295–297
stansburiana, 37:312–314, 39:92, 39:312, 39:319, 42:108–112, 43:9, 43:158, 43:445, 43:446
stejnegeri, 43:9
Utricularia, 41:463
biflora, 45:417–419
vulgaris, 45:417–419
Utterbackia imbecillis, 41:326, 41:327, 42:334
Uvulifer amplophitis, 44:222

Vaccinium, 42:119, 43:212, 43:214
arborea, 45:401
arboreum, 44:427, 44:441, 45:401, 45:405
cespitosum, 43:208, 43:210, 43:214
myrtillus, 43:205, 43:211, 43:214
pallidum, 45:402, 45:405, 45:406
scoparium, 43:204, 43:205, 43:209–212
Vachonobisium, 41:145
Valdes Cantu, Nora E., and Kirk O. Winemiller, Structure and habitat associations of Devils River fish assemblages, 42:265–278
Valdez, Ernest W., James N. Stuart, and Michael A. Bogan, Additional records of bats from the middle Rio Grande Valley, New Mexico, 44:398–400
Valdez, R., see Clemente, F., —
Valdez, Raul, see Bermudez, Francisca C., —
Valdez, Raul, see Smith, Christine, —
Valdez, Raul, see Tarango, Luis A., —
Valdez, Raul, see Zwank, Phillip J., —
Valdez, Richard A., and William C. Leibfried, Captures of striped bass in the Colorado River in Grand Canyon, Arizona, 44:388–392
Valdez, Richard A., and William J. Masslich, Evidence of reproduction by humpback chub in a warm spring of the Colorado River in Grand Canyon, Arizona, 44:384–387
Valdez Sanchez, Luz Isela y William P. MacKay, Revision del genero *Tylosis* (Coleoptera: Cerambycidae), 38:241–245
Valiente-Banuet, Alfonso, see Montaña, Carlos, and —
Vallisneria, 43:118
americana, 37:196, 42:49
Vallonia
cyclophorella, 42:472, 42:473
gracilicosta, 42:472, 42:473, 42:476
perspectiva, 42:471–473
pulchella, 42:472, 42:474, 42:476
Valverde, Pedro Luis, José Alejandro Zavala-Hurtado, Carlos Montaña, and Exequiel Ezcurra, Numerical analyses of vegetation based on environmental relationships in the southern Chihuahuan Desert, 41:424–433
Vampyrops lineatus, 37:415
Vampyrum spectrum, 38:300, 45:341, 45:342, 45:344
Van Auken, O. W., and J. K. Bush, Factors influencing the density and distribution of *Selaginella lepidophylla* in the Black Gap area of the Chihuahuan Desert of western Texas, 37:274–279
Van Auken, O. W., and J. K. Bush, Spatial relationships of *Helianthus paradoxus* (Compositae) and associated salt marsh plants, 43:313–320
Van Auken, O. W., and Paula S. Williamson, Rare plants of the Southwest: forward, 42:367–368
Van Auken, O. W., Changes in competition between a C_4 grass and a woody legume with differential herbivory, 39:114–121
Van Auken, O. W., Characteristics of intercanopy bare patches in *Juniperus* woodlands of the southern Edwards Plateau, Texas, 45:95–110
Van Auken, O. W., Germination requirements of aerial chasmogamous florets and seeds of *Nassella leucotricha* (Poaceae), 42:194–200
Van Auken, O. W., see Baskin, Carol C., —

Van Auken, O. W., see Bush, J. K., and —
Van Auken, O. W., see Jurena, P. N., and —
Van Auken, O. W., see White, James J., and —
Van Auken, O. W., Species rareness and commonness along spatial and temporal gradients, 42:369–374
van Breukelen, Frank, see Smith, Hobart M., —
Van Den Bussche, Ronald A., see Harmon, Stephanie A., and —
Van Devender, Thomas R., see Elias, Scott A., and —
Van Devender, Thomas R., see Sankey, Julia T., —
Van Pelt, William E., see Simons, Lee H., and —
van Riper, Charles, III, see Avery, Michael L., and —
Van Vuren, Dirk, see Mayfield, Rick L., —
Van Zee, Justin W., Walter G. Whitford, and Walter E. Smith, Mutual exclusion by dolichoderine ants on a rich food source, 42:229–231
Vander Wall, Stephen B., and Edward Peterson, Associative learning and the use of cache markers by yellow pine chipmunks (*Tamias amoenus*), 41:88–90
Vanegas, Cecilia, see Alcaraz, Guillermina, —
Vanessa
annabella, 44:377, 44:378
cardui, 39:142, 44:376–378
virginiensis, 44:378
Varacosa gosiuta, 46:209
Vargas, Jorge A., see Arita, Héctor T., and —
Vargas, Jorge A., see Sánchez, Oscar, —
Vargas, Julieta, see Cervantes, Fernando A., —
Vargas-Mendoza, M. C., and M. Gonzalez-Espinosa, Habitat heterogeneity and seed dispersal of *Opuntia streptacantha* (Cactaceae) in nopaleras of central Mexico, 37:379–385
Variable budbreak and insect folivory of Gambel oak (*Quercus gambelii*: Fagaceae), Stanley H. Faeth and Robert F. Rooney, III, 38:1–8
Variacion anual en la alimentacion y condicion fisica de *Sceloporus mucronatus* (Sauria: Iguanidae) en la Sierra del Ajusco, Distrito Federal, Mexico, Fausto R. Méndez-de la Cruz, Gustavo Casas-Andreu, y Maricela Villagran-Santa Cruz, 37:349–355
Variation in herd size of collared peccaries in a Mexican tropical forest, Salvador Mandujano, 44:199–204
Variation in the deciduous dentition of pocket mice (Heteromyidae: *Perognathus* and *Chaetodipus*), Terry A. Austin and Frederick B. Stangl, Jr., 40:104–107
Variation in the dentition of kangaroo rats (genus *Dipodomys*) and its implications for the fossil record, Marc A. Carrasco, 45:490–507
Varichaetadrilus angustipenis, 44:515, 44:516
Vataima lundelli, 37:427
Vaughan, R. Kathryn, see Dixon, James R., —
Vaughan, Terry A., see O'Shea, Thomas J., and —
Vaughn, Caryn C., Catastrophic decline of the mussel fauna of the Blue River, Oklahoma, 42:333–336
Vaughn, Caryn C., Charles M. Mather, Mark Pyron, Patricia Mehlhop, and Estelle K. Miller, The current and historical mussel fauna of the Kiamichi River, Oklahoma, 41:325–328
Vaughn, Caryn C., see Creighton, J. Curtis, —
Vaughn, Caryn C., see Pyron, Mark, —
Vaughn, Charles E., see Massey, Brian N., —
Vauquelinia californica, 37:376, 44:142
Vega-Villasante, Fernando, see Alvarez-Cárdenas, Sergio, —
Vegetation of Oklahoma: a classification for landscape mapping and conservation planning, the, Bruce Hoagland, 45:385–420
Vegetational analysis and floristics of four communities in the Big Ball Hill region of Padre Island National Seashore, Allan D. Nelson, Jim R. Goetze, Irma G. Negrete, Victor E. French, Mary P. Johnson, and Lashea M. Macke, 45:431–442
Vegetative associations of wood warblers migrating along the Middle Rio Grande Valley, New Mexico, Jeffrey F. Kelly, Deborah M. Finch, and Wang Yong, 45:159–168
Vegetative change on South Padre Island, Texas, over twenty years and evaluation of multispectral videography in determining vegetative cover and species identity, Robert I. Lonard, Frank W. Judd, James H. Everitt, David E. Escobar, Mario A. Alaniz, Isabel Cavazos, III, and M. R. Davis, 44:261–271
Vegetative structure and land use relative to cave selection by endangered Ozark big-eared bats (*Corynorhinus townsendii ingens*), Traci A. Wethington, David M. Leslie, Jr., Mark S. Gregory, and M. Keith Wethington, 42:177–181
Velasco, Josefa, and Andres Millan, Insect dispersal in a drying desert stream: effects of temperature and water loss, 43:80–87
Veliidae, 37:170, 44:25
Veniliornis fumigatus, 43:231
Venom composition and diet of the cantil *Agkistrodon bilineatus howardgloydi* (Serpentes: Viperidae), Alejandro Solorzano, Marjorie Romero, José Maria Gutierrez, and Mahmood Sasa, 44:478–483
Verbena
bipinnatifida, 42:444, 44:12, 44:14, 45:105
canescens, 42:444, 45:105
davenae, 45:91–93
hastata, 40:137
rigida, 45:18, 45:19
Verbenaceae, 42:490, 45:18, 45:442
Verbesina, 46:240
encelioides, 37:113, 37:114, 38:208
Vermeire, Lance T., see Boyd, Chad S., —
Vermivora
celata, 40:80, 42:140, 42:227, 45:80, 45:163, 45:164
luciae, 45:163
peregrina, 45:163
pinus, 45:163, 45:165
ruficapilla, 45:80, 45:163
virginiae, 40:80, 40:81, 42:140, 43:453, 43:456, 45:39–44, 45:163, 45:164
Vernonia
baldwinii, 44:407, 45:415
Veronica anagallis-aquatica, 40:137
Vertebrate pollination, fruit production, and pollen dispersal of *Stenocereus thurberi* (Cactaceae), Catherine T. Sahley, 46:261–271
Vertigo gouldii, 42:472–474, 42:476
Vespertilionidae, 37:420, 37:429–430, 38:73–76, 38:111, 38:115, 38:117, 41:261, 42:99–101, 43:495–496, 44:343–347, 44:404–405, 44:554, 45:338–340, 46:380–383
Vespidae, 37:434, 38:291, 39:92
Vespula, 39:381
Viability loss in seeds of palmilla (*Chamaedorea radicalis* Mart.) from El Cielo Biosphere Reserve, rapid, Mara Rojas Agil, Enrique Jurado, Gerardo Sanchez-Ramos, Luisa Trejo-Hernández, and Fernando Leal Ríos, 45:373–375
Viburnum
prunifolium, 44:427
rufidulum, 44:427, 45:401, 45:402, 45:407
Viguiera
deltoidea, 46:4, 46:5
greggi, 37:387
laciniata, 46:4
multiflora, 46:286

stenoloba, 46:401
Villa-C., Beatriz, and Richard M. Engeman, Reproductive characteristics of Merriam's pocket gopher (*Pappogeomys merriami merriami*) from Huitzilac, Morelos, Mexico (Rodentia: Geomyidae), 39:156–159
Villa-Cornejo, Beatriz, and Richard M. Engeman, Reproductive characteristics of the hispid pocket gopher (*Orthogeomys hispidus hispidus*) in Veracruz, Mexico, 40:411–414
Villa-Cornejo, Beatriz, Richard M. Engeman, and William Lopez-Forment, A description of neonates of Merriam's pocket gopher (*Pappogeomys merriami merriami*), 40:410–411
Villa-Ramirez, Bernardo, see Cervantes, Fernando A., —
Villagran-Santa Cruz, Maricela, see Méndez-de la Cruz, Fausto R., —
Villaseñor, J. Fernando, and Laura E. Villaseñor, Records of pelagic birds from coastal Michoacan, 43:402–404
Villaseñor, Laura E., see Villaseñor, J. Fernando, and —
Villaverde, Gloria A., and Naida Zucker, Sperm storage resulting in viable offspring in the tree lizard *Urosaurus ornatus* (Sauria: Phrynosomatidae), 43:92–95
Villosa
arkansasensis, 41:326, 41:327
lienosa, 41:326, 41:327, 42:334
Vines of two Texan semi-arid desert communities: floristic composition and ecological notes, Alexander Krings, 46:400–404
Vinson, S. B., see Ferris, David K., —
Vinson, S. Bradleigh, see Helms, Ken R., and —
Viola, 40:137
canadensis, 44:375
sagittata, 44:435
Vipera berus, 41:183
Viperidae, 40:124–125, 42:232–236, 42:330, 43:11, 44:478–483
Vireo
atricapilla, 42:408
bellii, 40:357, 42:227
carmioli, 37:344–346
gilvus, 40:80, 42:140, 43:456
griseus, 37:255
huttoni, 37:344–348, 37:386, 37:389, 39:377, 45:173
plumbeus, 43:456, 45:173
solitarius, 39:377, 40:80, 40:81, 40:99, 42:140
vicinior, 37:252–258
Vireonidae, 37:252–258, 37:344–348, 37:386, 42:140, 42:227
Virginia opossum (*Didelphis virginiana*) in New Mexico, distribution and status of the, Francisca C. Bermudez, James N. Stuart, Jennifer K. Frey, and Raul Valdez, 40:336–340
Virginia, Ross A., see Ho, Mengchi, —
Virginia striatula, 43:11
Viscainoa geniculata, 46:2
Visitation of evening primrose by carpenter bees: evidence of "mixed" pollination syndrome, John F. Barthell and Johannes M. H. Knops, 42:86–93
Vitaceae, 46:402
Vitex gaumeri, 40:30, 43:101, 45:79
Vitis, 39:92, 39:339
acerifolia, 45:410, 45:411
arixonica, 45:8, 45:9
arizonica, 42:138, 44:342, 45:172, 46:402
cinerea, 45:409, 45:410
vulpina, 45:408, 45:410
Vitrina pellucida, 42:472, 42:473, 42:476
Vitt, Laurie J., see Ramírez-Bautista, Aurelio, and —
Vochysiaceae, 44:508
Volatinia jacarina, 45:80
Vreeland, Justin K., see Tietje, William D., and —
Vulpes
fulva, 38:142
macrotis, 39:91, 40:225, 40:342–349, 40:360, 41:129, 42:460–470, 43:147, 43:153, 43:476, 44:85, 44:367–374, 45:204–211, 45:335, 46:72, 46:384
velox, 37:61, 39:91, 40:347, 42:460–462, 42:464, 43:476–479, 44:85, 45:212–220, 45:221–225
vulpes, 38:75, 38:352, 40:419, 41:350, 43:478, 44:85, 44:189, 44:373, 45:205

Wake, David B., On the taxonomic status of *Nototriton sanctibarbarus* McCranie and Wilson (Amphibia: Caudata), 43:88–91
Wake, Thomas A., see Gobalet, Kenneth W., and —
Wakeling, Brian F., Steven S. Rosenstock, and Harley G. Shaw, Forest stand characteristics of successful and unsuccessful Merriam's turkey nest sites in north-central Arizona, 43:242–248
Walck, Jeffrey L., see Baskin, Jerry M., —
Walker, Anne L., see Sissom, W. David, and —
Walker, Christopher W., Louis A. Harveson, Michael T. Pittman, Michael E. Tewes, and Rodney L. Honeycutt, Microsatellite variation in two populations of mountain lions (*Puma concolor*) in Texas, 45:196–203
Walker, James M., Harry L. Taylor, and James E. Cordes, Hybrid *Cnemidophorus* (Sauria: Teiidae) in Ninemile Valley of the Purgatoire River, Colorado, 39:235–240
Walker, James M., James E. Cordes, Harry L. Taylor, and Fernando Mendoza Quijano, Genealogy of a hybrid *Cnemidophorus* (Sauria: Teiidae) from the valley of the Rio Conchos, Chihuahua, Mexico, 45:527–533
Walker, James M., Jr., see Walker, James M., Sr., —
Walker, James M., Mark A. Paulissen, and James E. Cordes, Apparent changes in the composition of a community of cnemidophorine lizards (Sauria: Teiidae) in a subtropical Texas forest, 41:64–67
Walker, James M., see Paulissen, Mark A., —
Walker, James M., Sr., James E. Cordes, and James M. Walker, Jr., Habitat preferences of a disjunct population of parthenogenetic *Cnemidophorus neomexicanus* (Sauria: Teiidae) in San Miguel Co., New Mexico, 37:82–86
Walker, Stephen A., First record of *Psilocarya scirpoides* and a new record of *Eleocharis flavescens* (Cyperaceae) in Arkansas, 42:118
Wallace, Mark C., see Krausman, Paul R., —
Wallia, 38:115
Warren, Melvin L., Jr., see Fiorillo, Riccardo A., —
Warrick, Gregory D., Jerry H. Scrivner, and Thomas P. O'Farrell, Demographic responses of kit foxes to supplemental feeding, 44:367–374
Waser, Peter M., see Cross, Chad L., and —
Washingtonia
filifera, 39:193, 41:219, 41:220, 43:116
robusta, 39:99, 41:219
Water levels and weather on wintering herons and egrets, effects of, Paul J. DuBowy, 41:341–347
Water opossum (*Chironectes minimus*) from Guatemala, a first record of the, Robert G. McLean and Sonya R. Ubico, 38:402–404
Water relations of *Juniperus virginiana* and *Andropogon gerardii* in an unburned tallgrass prairie watershed, Beverly D. Axmann and Alan K. Knapp, 38:325–330
Waterfowl mortality from castor bean

poisoning in northwestern Texas, Carroll D. Littlefield, 41:445–446
Watershed influence on the macroinvertebrate fauna of ten major tributaries of the Colorado River through Grand Canyon, Arizona, Gaye E. Oberlin, Joseph P. Shannon, and Dean W. Blinn, 44:17–30
Watkins-Colwell, Gregory J., see Smith, Hobart M., —
Waugh, Jody, see Glenn, Edward, —
Wayne, Robert K., see Maldonado, Jesús E., —
Weathersbee, Floyd W., Jr., see Peles, John D., —
Webb, Robert G., A systematic review of the Mexican frog *Rana megapoda* Taylor (Anura: Ranidae), 41: 35–42
Webb, Robert G., and Ralph W. Axtell, The type locality of *Sceloporus torquatus minor* Cope, 1885 (Sauria: Iguanidae), 39:40–44
Webb, Wesley D., see Tyler, Jack D., and —
Weber R., Manuel, see Galindo-Leal, Carlos, —
Weberbauerocereus weberbaueri, 46:267, 46: 268
Weckerly, Floyd W., see Massey, Brian N., —
Wehausen, John D., see Krausman, Paul R., —
Weissia, 45:226
  sweetii, 45:231
Wells, Stephen P., see Rehfeldt, Gerald E., —
Weltzin, Jake F., Steve L. Dowhower, and Rodney K. Heitschmidt, Prairie dog effects on plant community structure in southern mixed-grass prairie, 42:251–258
Wenke, Thomas L., Mark E. Eberle, Guy W. Ernsting, and William J. Stark, Winter collections of the Neosho madtom (*Noturus placidus*), 37:330–333
West, Rick C., see Reichling, Steven B., and —
West, Rick C., Some new theraphosids from western Mexico (Araneae, Mygalomorphae), 45:299–305
Western harvester ants prefer nest sites near roads and trails, Anthony C. Terranella, Lisa Ganz, and James J. Ebersole, 44:382–384
Western screech-owls diurnally roosting in a cave, Tiffany N. Abeloe and Paul C. Hardy, 42:349–351
Western small-footed myotis (Mammalia: Chiroptera: *Myotis ciliolabrum*), noteworthy record of the, Ricardo López-Wilchis, Gerardo López-Ortega, and Robert D. Owen, 39: 211–212
Wethington, M. Keith, see Wethington, Traci A., —
Wethington, Traci A., David M. Leslie, Jr., Mark S. Gregory, and M. Keith Wethington, Vegetative structure and land use relative to cave selection by endangered Ozark big-eared bats (*Corynorhinus townsendii ingens*), 42:177–181
Wetland and deepwater habitat by wintering sandhill cranes in coastal Texas, use of, James T. Anderson, Thomas C. Tacha, and George T. Muehl, 45:76–79
Wetzel, Mark J., Gaye E. Oberlin, and Dean W. Blinn, The aquatic oligochaeta (Annelida: Clitellata) of Montezuma Well, Arizona: a near thermally constant limnocrene, 44:514–518
White, Callie A. Vanderbilt, see White, P. J., —
White, Don, Jr., and Don Moll, Restricted diet of the common map turtle *Graptemys geographica* in a Missouri stream, 37:317–318
White, James J., and O. W. Van Auken, Germination, light requirements, and competitive interactions of *Stipa leucotricha* (Gramineae), 41:27–34
White, P. J., Katherine Ralls, and Callie A. Vanderbilt White, Overlap in habitat and food use between coyotes and San Joaquin kit foxes, 40: 342–349
White, P. J., William H. Berry, Julie J. Eliason, and Michael T. Hanson, Catastrophic decrease in an isolated population of kit foxes, 45:204–211
White, Scott D., and Stephen J. Myers, Evidence of *Astragalus lentiginosus* var. *borreganus* growing from a heteromyid seed cache, 42:328–329
White-winged dove in southern Texas, status of the, David A. Swanson and John H. Rappole, 37:93–97
Whiteside, Bobby G., see Simon, Thomas P., —
Whitford, W. G., see Hoffman, M. T., —
Whitford, W. G., see MacKay, W. P., —
Whitford, W. G., see Milton, Suzanne J., —
Whitford, Walter G., see Van Zee, Justin W., —
Whiting, Martin J., James R. Dixon, and Roy C. Murray, Spatial distribution of a population of Texas horned lizards (*Phrynosoma cornutum*: Phrynosomatidae) relative to habitat and prey, 38:150–154
Whitlaw, Heather A., see Cunningham, Stanley C., —
Whittemore, Alan T., see Stark, Lloyd R., and —
Wier, Harold A., see Brown, John W., —
Wiesenborn, William D., Abundance and dispersion of shells of the white desertsnail, *Eremarionta immaculata* (Gastropoda: Pulmonata), 45:450–455
Wildhaber, Mark L., see Wilkinson, Chris, —
Wildlife corridor by desert mule deer, use of a, John C. Tull and Paul R. Krausman, 46:81–86
Wilkins, Kenneth T., see Roberts, Heather R., —
Wilkinson, Chris, David Edds, Joseph Dorlac, Mark L. Wildhaber, Christopher J. Schmitt, and Ann Allert, Neosho madtom distribution and abundance in the Spring River, 41: 78–81
Wilkinson, Robert F., see Peterson, Chris L., —
Williams, Charles F., see Storz, Jay F., and —
Williams, Lance R., Anthony A. Echelle, Conrad S. Toepfer, Marsha G. Williams, and William L. Fisher, Simulation modeling of population viability for the leopard darter (Percidae: *Percina pantherina*), 44:470–477
Williams, Marsha G., see Williams, Lance R., —
Williams, Rod N., see Beheler, Amanda S., —
Williamson, J. Howard, see Brown, Raymond E., —
Williamson, James H., see Taulman, James F., —
Williamson, Paula S., and Selvi K. Bazeer, Self-incompatibility in *Abronia macrocarpa* (Nyctaginaceae), 42:409–415
Williamson, Paula S., Lisa Muliani, and Gena K. Janssen, Pollination biology of *Abronia macrocarpa* (Nyctaginaceae), an endangered Texas species, 39:336–341
Williamson, Paula S., see Van Auken, O. W., and —
Willig, Michael R., Elizabeth A. Sandlin, and Michael R. Gannon, Structural and taxonomic correlates of habitat selection by a Puerto Rican land snail, 43:70–79
Willig, Michael R., see Gannon, Michael R., and —

Willig, Michael R., see Hall, Dianne L., and —
Wilson, Barry C., and Paul D. Levesque, Egg carrying by a mottled duck, 41:444–445
Wilson, Boyd C., see Rehfeldt, Gerald E., —
Wilson, Erika C., Wayne A. Hubert, and Stanley H. Anderson, Nesting and foraging of least terns on sand pits in central Nebraska, 38:9–14
Wilson, Jennifer K., Additional observations on precopulatory behavior of yellow-billed cuckoos, 45:535–536
Wilson, Jennifer K., Nest-reuse for the yellow-billed cuckoo in Arkansas, 44:538–539
Wilson, Larry David, see Dixon, James R., —
Wilson, Larry David, see McCranie, James R., and —
Wilsonia
canadensis, 45:80, 45:163, 45:165
citrina, 45:163
pusilla, 42:140, 43:158, 43:456, 45:163, 45:164
Wimmeria concolor, 45:424, 45:425, 45:427
Winemiller, Kirk O., see Anderson, Allison A., —
Winemiller, Kirk O., see García de León, Francisco J., —
Winemiller, Kirk O., see Robertson, Michael S., and —
Winemiller, Kirk O., see Valdes Cantu, Nora E., and —
Winkle, Paul L., see Chadwick, James W., —
Winston, Matthew R., see Pyron, Mark, —
Winston, Matthew R., see Taylor, Christopher M., —
Winter abundance, age structure, and distribution of bald eagles along the Colorado River, Arizona, Bryan T. Brown and Lawrence E. Stevens, 37:404–408
Winter aggregation on a small rock cluster by the tree lizard *Urosaurus ornatus*, Ken Boykin and Naida Zucker, 38:304–306
Winter collections of the Neosho madtom (*Noturus placidus*), Thomas L. Wenke, Mark E. Eberle, Guy W. Ernsting, and William J. Stark, 37:330–333
Winter mortality of northern bobwhites: effects of food plots and weather, Robert J. Robel and Kenneth E. Kemp, 42:59–67
Winter specimen of the common loon (*Gavia immer*) from the state of Hidalgo, Mexico, Patricia Ramírez B., Atahualpa E. Desucre-Medrano, Adolfo G. Navarro S., Pedro J. Romo O., and Hugo J. Castro, 39:394–395
Wintering bald eagle populations and behavior in the middle Rio Grande Basin, New Mexico, Phillip J. Zwank, Billy L. Tarrant, Raul Valdez, and Dennis L. Clason, 41:149–154
Wisonia pusilla, 42:227
Wolters, Gale L., see Ireland, Terry T., —
Wood, G. Keith, see Leslie, David M., Jr., —
Woodin, Marc C., Mary K. Skoruppa, Gene W. Blacklock, and Graham C. Hickman, Discovery of a second population of white-collared seed-eaters, *Sporophila torqueola* (Passeriformes: Emberizidae) along the Rio Grande of Texas, 44:535–538
Woodland vegetation, 38:185–197
Woodland vole (*Microtus pinetorum*) and two other species in northwestern Oklahoma, range extensions of the, Thomas W. Haner, Ronald W. Farrar, and Gary D. Schnell, 44:407–409
Woodsia obtusa, 45:400
Woodward, B. D., and J. Kiesecker, Ecological conditions and the notonectid-fairy shrimp interaction, 39:160–164
Woody plant recruitment under canopies of two acacias in a southwestern Texas shrubland, P. N. Jurena and O. W. Van Auken, 43:195–203
Woody riparian vegetation patterns in the upper Mimbres watershed, southwestern New Mexico, Peter H. Skartvedt, 45:6–14
Woody species composition of habitats used by ocelots (*Leopardus pardalis*) in the Tamaulipan biotic province, David B. Shindle and Michael E. Tewes, 43:273–279
Work, Kirsten, see Gido, Keith B., —
Worthington, Richard D., and Artie L. Metcalf, Additions to the Present and Quaternary gastropod faunas of the Franklin Mountains, El Paso County, Texas, 42:471–477
Wortman-Wunder, Emily, Territory size in Lincoln's sparrows (*Melospiza lincolnii*), 42:446–453

Xanthium
pennsylvanicum, 45:47
strumarium, 42:319, 45:418, 45:419
Xanthocephalum, 38:43
dracunculoides, 38:151, 39:2
sarothrae, 41:184
Xanthocephalus xanthocephalus, 42:227
Xantusia riversiana, 44:84
Xenarthra, 44:410–414
Xenops minutus, 43:231
Xenopsylla cheopsis, 46:96
Xenosaurus
grandis, 45:356–357
newmanorum, 45:356, 45:357
Xerobates agassizii, 37:115
Xiphophorus hellerii, 46:103
Xiphorhynchus flavigaster, 43:231
Xylem pressure potentials of single- and double-needled pinyon pines, James Malusa, 37:43–48
Xylocopa, 42:186
tabaniformis, 42:86–93
Xylosoma flexuosum, 43:276
Xyrauchen texanus, 38:397, 38:399–402, 39:371–374, 39:389–391, 40:241–244, 40:301, 41:162, 41:379, 44:384, 44:388, 44:393, 45:514, 45:516, 45:520, 46:34–40, 46:312
Xyris jupicai, 42:118
Xysticus, 45:462
aprilinus, 46:209
gulosus, 46:209
lassanus, 46:209
paiutus, 46:209

Yager, Lisa Y., and Fred E. Smeins, Ashe juniper (*Juniperus ashei*: Cupressaceae) canopy and litter effects on understory vegetation in a juniper-oak savanna, 44:6–16
Yersinia pestis, 40:290, 43:147–154, 44:484, 46:94, 46:172
Yoder, C. K., T. L. Thurow, D. H. Carlson, and B. L. Caesar, Root distribution patterns of common curlymesquite and sideoats grama on two Texas rangeland sites, 40:273–280
Yong, Tze-Hei, and Clifford S. Crawford, Ecology of two microlepidopteran leaf-rollers in an arid-land riparian forest, 42:155–161
Yong, Wang, and Deborah M. Finch, Population trends of migratory landbirds along the middle Rio Grande, 42:137–147
Yong, Wang, see Kelly, Jeffrey F., —
Young, Brenda L., see Fleet, Robert R., and —
Yucca, 37:386, 37:388, 37:390, 38:78, 38:228, 39:292, 41:271, 42:182, 42:183, 42:186, 42:187, 42:224, 43:498, 46:195, 46:241
angustissima, 40:186
baccata, 41:229
baccata, 38:310
brevifolia, 40:77, 43:48, 43:377, 43:397, 45:185
campestris, 38:225, 38:226, 38:229
carnerosana, 37:387, 45:339
decipiens, 37:380

elata, 38:44, 38:49, 38:310, 39:345, 40:186, 41:240, 41:318, 41:465, 41:467, 42:229, 42:230, 43:165, 43:166, 43:270, 43:450, 44:195
filifera, 37:387
glauca, 38:287, 39:96, 41:216, 42:352, 44:382, 44:431, 44:432, 44:437, 45:47, 45:217, 45:406, 45:408, 45:411, 45:413, 45:444
louisianensis, 39:2
periculosa, 43:39
rostrata, 40:355
rupicola, 42:444, 43:190
schidigera, 40:367
treculeana, 40:355, 43:276, 43:277, 45:438, 45:439, 45:441
valida, 46:2, 46:245
whipplei, 41:318–320, 42:340
Yucca provides roost for *Lasiurus xanthinus* (Chiroptera: Vespertilionidae) in Texas, Jana L. Higginbotham, Michael T. Dixon, and Loren K. Ammerman, 45:338–340

Zaedyus pichiy, 44:331
Zagal, Maria Guadalupe Bustos, see Castro-Franco, Rubén, and —
Zaitzevia parvula, 42:496
Zak, J. C., see MacKay, W. P., —
Zaldívar-Riverón, Alejandro and Adrian Nieto-Montes de Oca, Natural history and distribution of the lizard *Barisia rudicollis* (Anguidae), 46:391–396
Zale, Alexander V., Stuart C. Leon, Matthew Lechner, O. Eugene Maughan, Mark T. Ferguson, Steve O'Donnell, Brenda James, and Paul W. James, Distribution of the threatened leopard darter, *Percina pantherina* (Osteichthyes: Percidae), 39:11–20
Zamora, Rasalba, see Alvarado, Javier, —
Zamora-Orozco, Elvia M., see Carmona, Roberto, —
Zanaida asiatica, 41:258
Zanowiak, D. J., T. P. Harrison, and W. Caire, External bacteria of hibernating *Myotis velifer* (Chiroptera: Vespertilionidae), 38:73–76
Zanthoxylum
caribaeum, 45:424, 45:425
clava-herculis, 45:404, 45:438
fagara, 43:42, 43:275–277, 45:90
hirsutum, 45:407
Zapada frigida, 39:251
Zapus
hudsonius, 37:308–311, 42:318–322, 46:376–378
luteus, 37:308
princeps, 37:308
Zavala-Hurtado, José Alejandro, see Valverde, Pedro Luis, —
Zea
mays, 42:59
mayz, 39:156
Zebrina pendula, 44:90, 44:92
Zelotes
anglo, 45:462
gertschi, 46:209
laslanus, 45:462
Zenaida
asiatica, 37:93, 37:388, 38:68–71, 38:283, 40:357, 41:261, 41:271, 46:234–237
macroura, 37:73, 37:95, 37:287–292, 37:388, 37:398, 38:46, 40:97, 40:357, 41:261, 41:271, 42:226, 43:456, 44:486, 46:119, 46:235, 46:242
Zenaidura macroura, 42:35
Zengel, Scott A., and Edward P. Glenn, Presence of the endangered desert pupfish (*Cyprinodon macularius*, Cyprinidontidae) in Cienega de Santa Clara, Mexico, following an extensive marsh dry-down, 41:73–78
Zevene cesonia, 44:378
Zestusa dorus, 44:376, 44:378
Zethus, 43:249
Zexmenia
brevifolia, 43:200
gnaphalioides, 43:29, 43:39
hispida, 45:105
Zimmerman, Earl G., see Elrod, Douglas A., —
Zine, Matthew J., and Paul R. Krausman, Behavior of captive mountain sheep in a Mojave Desert environment, 45:184–195
Zinnia
acerosa, 38:346, 41:427
grandiflora, 38:43, 38:310, 45:414
Ziphius cavirostris, 41:283
Zizania
aquatica, 40:1, 42:423–428, 42:430, 42:432, 42:435
latifolia, 42:423, 42:427, 42:428
palustris, 42:423–428, 42:430, 42:435
texana, 37:196, 40:1–4, 41:462–464, 42:367, 42:423–432, 42:435–440, 44:213–214
Zizaniopsis miliacea, 45:410, 45:411, 45:415
Ziziphus obtusifolia, 38:78, 38:208, 39:73, 41:220, 43:275–277, 44:535, 45:31, 45:386, 45:391, 45:411
Zonitidae, 38:295
Zonitoides, 38:297
arboreus, 38:295, 42:472, 42:473, 42:476
Zonotrichia
atricapilla, 40:86
leucophrys, 37:399, 40:66, 40:86, 40:358, 42:141, 42:227, 43:457
Zoogeographic implications for the first record of *Crystallaria asprella* (Percidae) from the Kiamichi River drainage, and for the occurrence of *Notropis boops* (Cyprinidae) and *Luxilus chrysocephalus* (Cyprinidae) in the Wichita Mountains, Oklahoma, Christopher M. Taylor, Mark Pyron, and Matthew R. Winston, 38:302–303
Zostera marina, 40:393
Zucker, Naida, see Boykin, Ken, and —
Zucker, Naida, see Goldberg, Stephen R., —
Zucker, Naida, see Villaverde, Gloria A., and —
Zuñiga-Bermudez, Gerardo, see Salinas-Moreno, Yolanda, —
Zwank, P. J., see Clemente, F., —
Zwank, Phillip J., Billy L. Tarrant, Raul Valdez, and Dennis L. Clason, Wintering bald eagle populations and behavior in the middle Rio Grande Basin, New Mexico, 41:149–154
Zwank, Phillip J., see Custer, Christine M., —
Zwank, Phillip J., see Mitchell, Christine A., —
Zwank, Phillip J., see Smith, Christine, —
Zwank, Phillip J., see Tarango, Luis A., —
Zwank, Phillip J., see Thorn, Terri D., and —
Zwank, Phillip J., Sonia R. Najera, and Manual Cardenas, Life history and habitat affinities of meadow jumping mice (*Zapus hudsonius*) in the Middle Rio Grande Valley of New Mexico, 42:318–322
Zygocotyle lunata, 39:204, 40:326
Zygogramma
tortuosa, 37:108, 37:113, 37:115, 41:140, 41:142
tortusa, 41:141
Zygophyllaceae, 45:314